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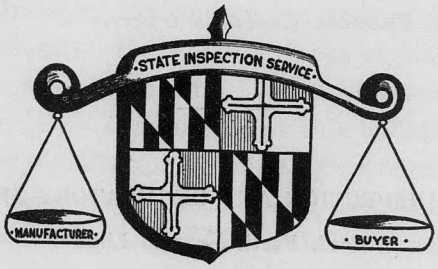
COMMERCIAL FERTILIZERS

This Bulletin contains advanced information regarding the composition of various brands of fertilizer which will be found upon the Maryland market during 1930, together with a report of inspection activities upon goods sold from July 1, 1929, to January 1, 1930.



STATE FERTILIZER INSPECTION SERVICE

COLLEGE PARK, MD.

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INTRODUCTION

In the interest of economy it has been considered advisable to combine the January publication of Commercial Fertilizers, which furnishes advanced information regarding the composition of mixed goods, with the bulletin previously edited in February, which contains the results of chemical examination upon sales of fertilizer made during the preceding fall season. This combined information will afford the reader, in certain cases, an opportunity to compare the manufacturer's declaration of guarantee with the results as actually found upon official samples by chemists employed in the State Laboratories.

The first part of this publication, or that embraced within pages 5 to 25, contains a list and description of all brands of fertilizer registered prior to January 12, and intended for 1930 delivery in Maryland. The editing of these data is the result of an insistent demand on the part of fertilizer users, particularly those on the Eastern Shore of Maryland, for advanced information regarding the composition of brands to be offered for sale. The success of this bulletin is dependent upon the early registration of goods by members of the industry, for if the products are not licensed they cannot be included for publication. The number of brands listed has been increasing each year and it is hoped that as the value of this publication is better realized a greater response will be noted. It is impossible, however, to include all products that will be sold, as many manufacturers find it necessary to supplement their first estimates of prospective demands with later registrations.

A detailed report covering the results of fertilizer inspection activities during the past fall season will be found on pages 26 to 48, inclusive. The results of the 1929 inspection, compared with those for the same period last year, show general improvement in guarantees for the plant food supplied.

MARYLAND STANDARD HIGH-ANALYSIS FERTILIZERS

The purpose of recommending standard fertilizers may be stated briefly as an attempt to encourage the greater use of high-grade fertilizers and thus reduce the unit cost to the consumer through the savings in such items as freight, containers, handling charges, and manufacturing costs.

Analysis	Total Units	RECOMMENDED FOR	
		Piedmont, Western Maryland, and Southern Maryland	Coastal Plains—Eastern Shore
2–8–5	15	Corn, small grains, cannery corn, late potatoes.	Corn, late potatoes, cannery corn, and grains on the heavier soils, and for legumes on unmanured soils.
2–8–10	20	Tobacco on rested land with manure and following legumes.	Sweet potatoes on sandy soil with manure and for root crops as carrots, beets, parsnips, etc.
2–12–4	18	Wheat, winter barley, and corn on dairy farms and where fertilizer is divided between the grain crops.	Late potatoes and grains on loams and heavy soils.
0–12–5	17	Soy-beans, cow-peas, top-dressing alfalfa, and on corn and grass land that is heavily manured	Alfalfa, clovers, soy-beans, cow-peas, and pasture or manured land.
3–8–8	19	Sweet potatoes, carrots, parsnips, turnips, and other root crops.	Sweet potatoes, carrots, parsnips, turnips, and other root crops.
5–8–5	18	Sugar corn, asparagus, cannery peas and beans, cucumbers, cantaloupes, late potatoes and lima beans, and grains on sandy soils.	Sugar corn, asparagus, cannery peas and beans, cucumbers, cantaloupes, late potatoes and lima beans, and grains on sandy soils.
5–8–7	20	Tobacco in regular rotation, top-dressing tobacco beds, and tomatoes in rotation with field crops.	Tomatoes.
7–6–5	18	Early potatoes, asparagus, and other truck crops.	Early potatoes and broccoli.
9–5–2	16	Tobacco beds and spinach.	

*Representatives of the Delaware and Maryland Agricultural Experiment Stations concur in the recommendations for the Del-Mar Peninsula.

TABLES

The following pages contain a detailed list of the different brands of fertilizer registered for 1930 delivery and the declared composition of each:

Potash—Soluble | Phosphoric Acid—Available | Ammonia

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Garbage Tankage	Cocoa Shell Meal	Humus	Ammonium Sulphate Nitrate	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Sulphate
American Agricultural Chem. Co., New York, N. Y.																		
10% Tob. Bed Fert. (Sulphate), 10-5-2	7.	1.5	1.5	.....	.....	.....	.....	.....	.....	.....	.....	5.	.....	.....	.....	.....	.....	2.
10% Plant Bed Fertilizer, 10-5-0	7.	1.5	1.5	.....	.....	.....	.....	.....	.....	.....	.....	5.	.....	.....	.....	.....	.....	.....
Top Dresser, 8-6-6	7.2	.....	.8	.....	.....	.....	.....	.....	.....	.....	.....	6.	.....	.....	.....	3.6	2.4	.....
Two in One Fertilizer, 4-16-4	4.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	2.	2.	.....
Red Leaf Tob. Fert. (Sulphate), 4-8-10	2.8	.....	.4	.....	.....	.....	.8	.....	.....	.....	.....	8.	.....	.....	.....	.....	.....	10.
Golden Leaf Tob. Fert. (Sulphate), 4-8-7	2.8	.....	.4	.....	.....	.....	.8	.....	.....	.....	.....	8.	.....	.....	.....	.....	.....	7.
Gladiator Fertilizer, 4-8-7	3.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	.....	7.	.....
Monarch Fertilizer, 4-8-4	3.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	.....	4.	.....
Gold Eagle Fertilizer, 3-8-8	2.55	.....	.45	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	2.	6.	.....
Sweepstakes Tob. Fert. (Sulphate), 3-8-3	2.1	.....	.3	.....	.....	.....	.6	.....	.....	.....	.....	8.	.....	.....	.....	.....	.....	3.
Double Strength Fertilizer, 2-16-8	2.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	8.	.....	.....
Red Dragon Fertilizer, 2-12-2	1.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	.....	2.	.....
Old Hickory Fertilizer, 2-8-10	1.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	7.	3.	.....
Kangaroo Komplete Kompound, 2-9-3	1.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	9.	.....	.....	.....	.....	3.	.....
Tomato Fertilizer, 2-8-5	1.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	.....	5.	.....
Red Dog Fertilizer, 2-8-5	1.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	.....	5.	.....
Neptune Fish Fertilizer, 1-9-4	.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	9.	.....	.....	.....	.....	4.	.....
Acme Fertilizer, 1-9-4	.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	9.	.....	.....	.....	.....	4.	.....
Pulverized Sheep and Goat Manure, 1½-1 T. P. A.-2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nitrate of Soda, 18.23-0-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pure Raw Bone, 4½-20.60 T. P. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Fine Ground Bone, 3-22.89 T. P. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sulphate of Ammonia, 24½-0-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ground Tankage, 6-13.73 T. P. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Superphosphate, 0-20-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20.	.....	.....	.....	.....	.....	.....
Superphosphate, 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Basic Lime Phosphate, 0-13-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13.	.....	.....	.....	.....	.....	.....
Victory Mixture, 0-12-5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	.....	5.	.....
Muriate of Potash, 0-0-48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sulphate of Potash, 0-0-48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kainit, 0-0-12.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Garbage Tankage	Cocoa Shell Meal	Humus	Ammonium Sulphate Nitrate	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Sulphate
American Agricultural Chemical Co., New York, N. Y. (Continued)																		
Listers Regal Fertilizer, 4-8-4	3.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	.....	4.	.....
Listers Golden Crown Fertilizer, 2-8-10	1.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	7.	3.	.....
Listers Harvest Queen Fertilizer, 2-8-5	1.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	.....	5.	.....
Listers G. Brand Fertilizer, 1-9-4	.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	9.	.....	.....	.....	.....	4.	.....
Listers High Grade Superphos., 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Patapsco Unexcelled Fertilizer, 4-8-4	3.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	.....	4.	.....
Patapsco Big Chief Fertilizer, 2-8-5	1.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	.....	5.	.....
Patapsco Coon Brand Fertilizer, 1-9 4	.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	9.	.....	.....	.....	.....	4.	.....
Patapsco High Grade Superphosphate, 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Patapsco Apex Mixture, 0-12-5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	.....	5.	.....
Slingluff's Plant Bed Fertilizer, 10-5-2	7.	1.5	1.5	.....	.....	.....	.....	.....	.....	.....	.....	5.	.....	.....	.....	.....	2.	.....
Wheeler's High Grade Superphos., 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Agrico for Potatoes (Tidewater), 7-6-5	6.3	.....	.7	.....	.....	.....	.....	.....	.....	.....	.....	6.	.....	.....	.....	2.5	2.5	.....
Agrico for Truck, 5-10-5	4.5	.....	.5	.....	.....	.....	.....	.....	.....	.....	.....	10.	.....	.....	.....	2.5	2.5	.....
Early Trucker Fertilizer, 5-8-5	4.5	.....	.5	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	2.5	2.5	.....
Top Dresser Fertilizer, 5-8-0	4.5	.....	.5	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	.....	.....	.....
Agrico for Potatoes, 4-8-6	3.6	.....	.4	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	3.6	2.4	.....
Agrico for Tomatoes, 3-12-6	2.7	.....	.3	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	.....	6.	.....
Agrico for Corn, 3-10-6	2.7	.....	.3	.....	.....	.....	.....	.....	.....	.....	.....	10.	.....	.....	.....	.....	6.	.....
Agrico for Grain, 2-12-4	1.7	.....	.3	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	.....	4.	.....
Farmer's Friend Fertilizer, 2-12-4	1.7	.....	.3	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	.....	4.	.....
Silk Leaf Tob. Fert. (Sulphate), 2-8-10	1.7	.....	.3	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	.....	.....	10.
Detrick's Gold Basis Fertilizer, 7-6-5	6.3	.....	.7	.....	.....	.....	.....	.....	.....	.....	.....	6.	.....	.....	.....	2.5	2.5	.....
Listers Royal Fertilizer, 5-8-5	4.5	.....	.5	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	2.5	2.5	.....
Anglo-Chilean Nitrate Sales Corp., New York, N. Y.																		
Nitrate of Soda, 18.84-0-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Cotton Seed Meal	Ammonia	Ammonium Nitrate	Ammonium Phosphate	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Sulphate
Armour Fertilizer Works, Balto., Md.																		
Big Crop Fertilizer, 10-5-2	5.75	2.	.5	.....	.....	.....	.25	.....	.....	.....	1.5	5.	.....	.....	.....	2.	.....	.....
*NPK, 9-27-9	5.4	.....	.....	.....	.....	.....	.....	.....	1.8	1.8	.....	27.	.....	.....	.....	9.	.....	.....
*NPK, 9-18-18	5.4	.....	.....	.....	.....	.....	.....	.....	1.8	1.8	.....	18.	.....	.....	.....	18.	.....	.....
Big Crop Truck Grower, 7-12-7	4.3	.7	.....	.....	.....	.....	.....	.....	.....	.....	2.	12.	.....	.....	.....	7.	.....	.....
Big Crop Fertilizer, 7-6-5	4.1	.7	.3	.05	.....	.....	.35	.....	.....	.....	1.5	6.	.....	.....	.....	5.	.....	.....
Big Crop Fertilizer, 5-15-5	2.5	.5	.....	.....	.....	.....	.....	.....	.....	.....	2.	15.	.....	.....	.....	5.	.....	.....
Big Crop Fertilizer, 5-8-5	2.4	.5	.2	.05	.....	.....	.35	.....	.....	.....	1.5	8.	.....	.....	.....	5.	.....	.....
Big Crop Fertilizer, 4-16-10	1.6	.4	.....	.....	.....	.....	.....	.....	.....	.....	2.	16.	.....	.....	.....	10.	.....	.....
Big Crop Fertilizer, 4-16-4	1.6	.4	.....	.....	.....	.....	.....	.....	.....	.....	2.	16.	.....	.....	.....	4.	.....	.....
Big Crop Tobacco Grower, 4-8-7	2.35	.4	.6	.....	.....	.....	.25	.4	.....	.....	.....	8.	.....	.....	.....	.....	.....	7.
Big Crop Potato Grower, 4-8-7	1.55	.4	.2	.....	.....	.....	.35	.....	.....	.....	1.5	8.	.....	.....	.....	7.	.....	.....
Big Crop Fertilizer, 4-8-4	1.55	.4	.2	.....	.....	.....	.35	.....	.....	.....	1.5	8.	.....	.....	.....	.....	4.	.....
Big Crop Tomato Grower, 3-10-6	.7	.3	.1	.05	.....	.....	.35	.....	.....	.....	1.5	10.	.....	.....	.....	2.	4.	.....
Big Crop Sweet Potato Grower, 3-8-8	.7	.3	.1	.05	.....	.....	.35	.....	.....	.....	1.5	8.	.....	.....	.....	4.	4.	.....
Big Crop Fertilizer, 2-16-8	.8	.2	.....	.....	.....	.....	.....	.....	.....	.....	1.	16.	.....	.....	.....	8.	.....	.....
Big Crop Fertilizer, 2-12-4	.55	.....	.1	.....	.....	.....	.35	.....	.....	.....	1.	12.	.....	.....	.....	.....	4.	.....
Big Crop Fertilizer, 2-12-2	.55	.....	.1	.....	.....	.....	.35	.....	.....	.....	1.	12.	.....	.....	.....	.....	2.	.....
Big Crop Fertilizer, 2-9-3	.55	.....	.1	.....	.....	.....	.35	.....	.....	.....	1.	9.	.....	.....	.....	.....	3.	.....
Big Crop Fertilizer, 2-8-10	.55	.....	.1	.....	.....	.....	.35	.....	.....	.....	1.	8.	.....	.....	.....	10.	.....	.....
Big Crop Fertilizer, 2-8-5	.55	.....	.1	.....	.....	.....	.35	.....	.....	.....	1.	8.	.....	.....	.....	.....	5.	.....
Big Crop Fertilizer, 1-9-4	.25	.....	.15	.....	.....	.....	.35	.....	.....	.....	.25	9.	.....	.....	.....	.....	4.	.....
Big Crop Fertilizer, 0-12-5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	2.5	2.5	.....
Big Crop Fertilizer, 0-10-10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10.	.....	.....	.....	7.	3.	.....
Big Crop Superphosphate, 0-20-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20.	.....	.....	.....	.....	.....	.....
Big Crop Superphosphate, 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Lime Phosphate, 0-13-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13.	.....	.....	.....	.....	.....	.....
Big Crop Raw Bone Meal, 4½-21.51 T. P. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Big Crop Bone Meal, 3-21.97 T. P. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nitrate of Soda, 18-0-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Ground Animal Tankage, 9-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Sheep and Goat Manure, 1½-1 T. P. A.-2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Muriate of Potash, 0-0-48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Reported as Nitrogen

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Garbage Tankage	Urea	Humus	Cocoa Meal	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Sulphate
Associated Chemical Co., Balto., Md.																		
Pure Raw Bone, 4½-20 T. P. A.																		
Fine Bone Meal, 3-23 T. P. A.																		
Sulphate of Ammonia, 25-0-0																		
Nitrate of Soda, 18.20-0-0																		
Muriate of Potash, 0-0-48																		
Manure Salts, 0-0-20																		
Kainit, 0-0-12.40																		
Baltimore Fertilizer Co., Balto., Md.																		
Honest 10% Tob. Bed Mixture, 10-4-2	7.25	1.	.25					.5			.5	3.6	.4					2.
Honest Trucker, 5-7-5	4.						.5	.25			.25	7.				2.	3.	
Honest, 4-8-4	3.						.5	.25			.25	8.					4.	
Honest, 3-8-5	2.						.5	.25			.25	8.				1.	4.	
Honest, 2-8-10	1.						.5	.25			.25	8.				6.	4.	
Honest, 2-8-5	1.		.25				.5				.25	8.					5.	
Honest, 1-9-4	.25						.25	.25			.25	9.					4.	
Honest Acid Phosphate, 0-16-0												16.						
Barrett Company, New York, N. Y.																		
Sulphate of Ammonia, 25-0-0																		
Arcadian Sulphate of Ammonia, 25-0-0																		
Arcadian Nitrate of Soda, 19.77-0-0																		
Baugh & Sons Co., Baltimore, Md.																		
New Process 10% Guano, 10-5-0	6.6	.8	1.5	.1					1.			3.5	1.4	.1				
7% Potato Guano, 7-6-5	4.4	.8	.7	.1					1.			5.7	.2	.1		5.		
Peruvian Guano Substitute, 5-8-5	2.7	.1	1.5						.7			7.7	.3			5.		
Double Power Fertilizer, 4-16-4	2.6	.1	.3						1.			15.7	.3			4.		
Baughgro, 4-12-4	3.3	.5								.2		12.				4.		
Balanced Plant Food, 4-12-4	2.6	.1	.3						1.			11.7	.3			4.		
Half Century Perfection Brand, 4-8-7	2.7	.1	.5						.7			7.7	.3			7.		
Special Tobacco Guano, 4-8-4	2.1	.3	.7						.9			7.7	.3					4.
Fish Bone and Potash, 4-8-4	2.3	.3	.5	.1	.1				.7			7.6	.3	.1		1.5	2.5	

Special Tobacco Guano, 4-8-4	2.1	.3	.7						.9			7.7	.3					4.	
Fish Bone and Potash, 4-8-4	2.3	.3	.5	.1	.1				.7			7.6	.3	.1		1.5	2.5		

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Garbage Tankage	Urea	Humus	Cocoa Meal	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Sulphate
Baugh & Sons Co., Balto., Md. (Cont.)																		
Three-Quarter Century Perfection Brand, 3-10-6	2.1	.1	.5						.3			9.7	.3			6.		
Sweet Potato Guano, 3-8-8	2.	.1	.5	.1					.3			7.6	.3	.1		8.		
Yucatan Tobacco Guano, 3-8-3	1.7	.2	.5						.6			7.8	.2					3.
Double Eagle Phosphate, 2-12-4	1.3	.1	.3						.3			11.7	.3			4.		
The Old Standby, 2-12-2	1.3	.1	.3						.3			11.7	.3				2.	
Corn and Oats Fertilizer, 2-12-2	1.3	.1	.3						.3			11.7	.3				2.	
Animal Base and Potash Comp., 2-9-3	1.25	.1	.45						.2			8.7	.3				3.	
Fish Mixture, 2-9-3	1.25		.45	.1					.2			8.6	.3	.1			3.	
Tomato Compound, 2-9-3	1.25	.1	.45						.2			8.7	.3				3.	
Wheat Fert. for Wheat and Grass, 2-9-3	1.25	.1	.45						.2			8.7	.3				3.	
Commercial Crop Compound, 2-8-10	1.25	.1	.45						.2			7.7	.3			10.		
Complete Animal Base Fertilizer, 2-8-5	1.25	.1	.45						.2			7.7	.3			2.5	2.5	
Special Potato Manure, 2-8-5	1.25	.1	.45						.2			7.7	.3			2.5	2.5	
Sheep Manure, 2.43-1 T. P. A.-1																		
Half and Half Mix. with Potash, 1½-10-5					1.5							8.			2.	5.		
Excelsior Guano, 1-9-4	.6		.4									8.7	.3			1.5	2.5	
The Ideal Superphosphate, 0-20-0												20.						
The Ideal Superphosphate, 0-16-0												16.						
Lime and Phosphate, 0-13-0												13.						
Phosphate and Potash, 0-12-5												12.				1.	4.	
Phosphate and Potash, 0-10-10												10.				10.		
Muriate of Potash, 0-0-48																		
Genuine Imported Kainit, 0-0-12.40																		
Sulphate of Ammonia, 25-0-0																		
Nitrate of Soda, 18½-0-0																		
Raw Bone Meal, 4½-21½ T. P. A.																		
Bone Meal, 3-23 T. P. A.																		
Ground Fish, 10-5 T. P. A.																		
Ground Tankage, 7-5 T. P. A.																		

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Garbage Tankage	Cocoa Shell Meal	Humus	Cocoa Meal	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Kainit
Central Chem. Co., Hagerstown, Md.																		
"Gro-All" Truck and Pot. Special, 5-8-5	4.						.5	.25	.25			8.				1.	4.	
"Gro-All" Potato Special, 4-8-7	3.4		.2					.2	.2			8.				2.	5.	
"Gro-All" Super-Fish, 2-12-6	.66			1.				.17	.17			12.				6.		
"Gro-All" Grain and Grass Grower, 2-12-2	1.						.5	.25	.25			12.					2.	
"Gro-All" Imperial, 2-8-10	1.		.25				.5		.25			8.				4.	6.	
"Gro-All" Excelsior, 2-8-5	1.						.5	.25	.25			8.					5.	
"Gro-All" Fish and Pot. Comp., 1¼-9-4			.25	.37			.37		.25			9.					4.	
"Gro-All" Crown Jewel, 1-9-4			.25				.5		.25			9.					4.	
"Gro-All" Dissolved Phosphate, 0-16-0												16.						
"Gro-All" Potash Special, 0-12-5												12.					5.	
Dorchester Fert. Co., Cambridge, Md.																		
Dorco Imperial, 7-6-5	4.5		2.				.5					6.				3.5	1.5	
Fish Special, 2-10-3	1.			.75			.25					10.						3.
Dorco Diamond, 2-8-8	1.				1.							8.				2.	6.	
Superphosphate, 0-16-0												16.						
Dorco Winner, 0-12-6												12.					6.	
Kainit, 0-0-12.40																		
E. I. Du Pont De Nemours & Co., Wilmington, Del.																		
Chilean Nitrate of Soda, 18.60-0-0																		
Eastern States Farmers' Exchange, Springfield, Mass.																		
Superphosphate, 0-16-0												16.						
Edelen Bros., Baltimore, Md.																		
10% Tob. Bed with 2% Potash, 10-4-2	6.25	2.00	1.5					.25				3.	1.					*2.

* Sulphate

* Sulphate

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cocoa Meal	Hoof and Horn Meal	Tobacco Stems	Ammonium Phosphate	Dissolved Bone Base	Super Phosphate	Ammonium Phosphate	Fish	Base Goods	Muriate	Manure Salts	Kainit
Farmers & Planters Co., Salisbury, Md.																		
High Grade 7%, 7-6-5	3.	1.	2.	1.								6.				5.		
High Grade 5%, 5-7-5	2.		2.	1.								7.				5.		
Early Truck, 4-8-4	2.		1.	1.								8.				4.		
X X Potash Mixture, 4-7-10	2.		1.	1.								7.				10.		
Sweet Potato Special, 3-8-7	1.		1.	1.								8.				7.		
Fish Mixture, 2-10-2	1.		.5	.5								10.						2.
Special Fish Mixture, 2-8-5	1.		.5	.5								8.				5.		
Fish and Potash, 2-8-10	1.		.5	.5								8.				10.		
Corn Grower, 1-9-4											1.	9.				4.		
Acid Phosphate, 0-16-0												16.						
Special Potash Mixture, 0-12-5												12.				5.		
Rock and Kainit, 0-7-5												7.						5.
Kainit, 0-0-12.04																		
Ford Motor Co., Dearborn, Mich.																		
Ammonium Sulphate, 25.30-0-0																		
Frederick Mehring Fert. Works, Inc., Keymar, Md.																		
Early Truck Guano, 4-8-7	1.	1.	2.									8.				3.	4.	
Mamouth Truck Grower, 2-8-5		1.	1.									8.					2.5	2.5
Big Four, 1-9-4	.5		.5									9.					2.	2.
Acid Phosphate, 0-16-0												16.						
Pea Mixture, 0-12-10												12.				10.		
Potash Mixture, 0-12-5												12.					5.	
Griffith & Boyd Co., Baltimore, Md.																		
Special Potato Guano, 4-8-6	1.5	.5		.25		1.75						7.			1.	3.	3.	
High Grade Fish and Potash Mix., 2-12-8		.5	.25	.5		.75						11.		.5	.5	8.		
High Grade Economizer, 2-12-5	.25	.5	.5			.75						11.5			.5	2.	2.	1.
Gilt Edge Crop Guano, 2-8-10	.5	.5				1.						7.5			.5	10.		
Special Guano, 2-8-5	.5	.5	.25			.75						7.5			.5	3.	2.	
Fish, Blood, and Potash, 1¾-10¼-2		.25	.5	.5		.5						9.25		.5	.5	1.		1.

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Garbage Tankage	Cocoa Shell Meal	Humus	Ammonium Sulphate Nitrate	Super Phosphate	Tankage	Fish	Base Goods	Muriate	Manure Salts	Kainit
Griffith & Boyd Co., Balto., Md. (Cont.)																		
Fish and Potash Guano, 1¾-10-3	.....	.25	.25	.5	.....	.75	.....	.....	.....	.....	.....	9.	.....	.5	.5	.....	1.	2.
Peerless Fertilizer, 1-10-3	.....	.2	.....	.....	.....	.8	.....	.....	.....	.....	.....	9.5	.....	.....	.5	.....	1.	2.
Royal Potash Guano, 1-9-4	.....	.2	.....	.....	.....	.8	.....	.....	.....	.....	.....	8.	.....	.....	1.	2.	1.	1.
Farmers Potato Manure, 1-8-6	.....	.2	.....	.....	.....	.8	.....	.....	.....	.....	.....	7.5	.....	.....	.5	3.	3.	.....
Sulphate of Ammonia, 24½-0-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nitrate of Soda, 18-0-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pure Fine Gr. Bone Meal, 4½-20 T. P. A	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Acid Phosphate, 0-20-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20.	.....	.....	.....	.....	.....	.....
High Grade Acid Phosphate, 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Lime Phosphate, 0-13-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13.	.....	.....	.....	.....	.....	.....
Special Grain Grower, 0-12-5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	1.	2.	2.
X X Potash Manure, 0-10-5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10.	.....	.....	.....	1.	2.	2.
Griffith & Turner Co., Baltimore, Md.																		
Gritco XL Plant Food, 5-8-3½	.....	1.	1.5	.5	.....	2.	.....	.....	.....	.....	.....	7.8	.1	.1	.....	1.5	.....	2.
Special Truck Mixture, 4-8-6	1.	1.	.....	.....	.....	2.	.....	.....	.....	.....	.....	7.	.....	.....	1.	3.	3.	.....
Animal Bone Phosphate, 2½-10-1½	.....	.75	.75	.....	.....	1.	.....	.....	.....	.....	.....	9.9	.1	.....	.....	.....	1.5	.....
Tomato Grower, 2-8-5	.5	.5	.....	.....	.....	1.	.....	.....	.....	.....	.....	7.	.....	.....	1.	3.	2.	.....
Ammoniated Butchers Bone, 1¼-9-1½	.....	.....	.75	.....	.....	.5	.....	.....	.....	.....	.....	8.9	.1	.....	.....	.....	1.5	.....
Special Potato Fertilizer, 1-9-4	.....	.....	.....	.....	.....	1.	.....	.....	.....	.....	.....	8.	.....	.....	1.	2.	1.	1.
Ammoniated Alk. Plant Food, 1-6½-1½	.....	.....	.5	.....	.....	.5	.....	.....	.....	.....	.....	6.4	.1	.....	.....	.....	1.5	.....
Soft Ground Bone, 3-11 T. P. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Gro Wer Plant Food Co., Westminster, Maryland.																		
Gro Wer Plant Food, 8-7-6.	.....	3.	5.	.....	.....	.....	.....	.....	.....	.....	.....	7.	.....	.....	.....	.....	.....	*6.
Hagerstown Spray Material Co., Hagerstown, Md.																		
Nitrate of Soda, 18-0-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Sulphate

* Sulphate

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Garbage Tankage	Ammonia	Ammonium Nitrate	Ammonium Phosphate	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Kainit
Hubbard Fert. Co., Baltimore, Md.																		
7% Royal Seal, 7-6-5	5.	.....	1.5	.5	.....	.....	.....	.....	.....	.....	.....	6.	.....	.....	.....	5.	.....	.....
New 5% Seal, 5-8-5	3.	.....	1.5	.....	.....	.....	.5	.....	.....	.....	.....	8.	.....	.....	.....	5.	.....	.....
Potato Fertilizer, 4-8-7	2.	.5	1.	.....	.....	.....	.5	.....	.....	.....	.....	8.	.....	.....	.....	7.	.....	.....
Money Maker Fertilizer, 2-8-5	.5	.....	1.	.....	.....	.....	.5	.....	.....	.....	.....	8.	.....	.....	.....	5.	.....	.....
Superphosphate, 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Alkaline, 0-12-5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	5.	.....	.....
Huston, Culver & Co., Seaford, Del.																		
7-6-5	3.5	1.5	1.	1.	.....	.....	.....	.....	.....	.....	.....	6.	.....	.....	.....	5.	.....	.....
5-8-5	2.	1.	1.	1.	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	5.	.....	.....
Truck Guano, 4-8-5	1.	1.	1.	1.	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	2.5	2.5	.....
Tomato Special, 4-8-10	1.	1.	1.	1.	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	10.	.....	.....
Sweet Potato Mixture, 3-8-8	.5	.5	1.	1.	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	8.	.....	.....
Trucker, 3-8-5	1.	.....	1.	1.	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	2.5	2.5	.....
Tomato Mixture, 2-8-5	.....	.5	1.5	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	2.5	2.5	.....
Huston Special, 1-9-4	.....	.....	1.	.....	.....	.....	.....	.....	.....	.....	.....	9.	.....	.....	.....	.....	4.	.....
Acid Phosphate, 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Double Potash Mixture, 0-12-5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	2.5	2.5	.....
Koppers Products Co., Pittsburgh, Pa.																		
Velvet Lawn (Sulphate of Ammonia) Fertilizer, 25.20-0-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Maryland Milling & Supply Co., Sykesville, Md.																		
Forthman's Special, 5-8-5	3.5	.....	.....	.....	.....	.....	.....	1.5	.....	.....	.....	8.	.....	.....	.....	3.	2.	.....
"Special", 4-8-4	2.5	.....	.....	.....	.....	.....	.....	1.5	.....	.....	.....	8.	.....	.....	.....	2.	2.	.....
1929 Mixture, 2-12-4	1.	.....	.....	.....	.....	.....	.....	1.	.....	.....	.....	12.	.....	.....	.....	2.	2.	.....
Newman's Favorite, 2-8-5	1.5	.....	.....	.....	.....	.....	.....	.5	.....	.....	.....	8.	.....	.....	.....	2.5	2.5	.....
High Grade Superphosphate, 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Gambrill's Special, 0-12-10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	10.	.....	.....
Phosphate and Potash, 0-12-5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	2.5	.....	2.5

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Garbage Tankage	Sheep Manure	Blood	Cocoa Hull	Super Phosphate	Tankage	Sheep Manure	Bone	Muriate	Manure Salts	Kainit
Medford Fert. Works, Medford, Md.																		
2-8-5	.5		.5				.5				.5	8.					2.5	2.5
1-10-5	.25						.25	.25			.25	10.					2.5	2.5
1-8-5	.25						.25	.25			.25	8.						5.
0-12-5												12.						5.
Miller Fertilizer Co., Baltimore, Md.																		
7-6-5	5.		1.5	.5								6.				5.		
Vegetable Compound, 5-8-5	3.		1.5				.5					8.				5.		
4-8-7	2.	.5	1.				.5					8.				7.		
No. 1 Potato and Veg. Grower, 4-8-4	2.	.5	1.				.5					8.				4.		
3-10-6	1.5		1.				.5					10.				6.		
3-8-8	1.5		1.				.5					8.				8.		
2-12-4	.5		1.				.5					12.				4.		
Pimlico 2-8-10	.5		1.				.5					8.				10.		
2-8-5	.5		1.				.5					8.				5.		
Harvest Queen, 1-9-4			.5				.5					9.				4.		
Superphosphate, 0-16-0												16.						
0-12-5												12.				5.		
10-5-2 Fertilizer, 10-5-2	6.	1.	2.			1.						5.				2.		
Mor-Life Plant Food Co., Balto., Md.																		
Mor-Life Plant Food, 4-5-2		.75			.5				.75	2.				.6	4.4		†.7	*1.3
G. Ober & Sons Co., Baltimore, Md.																		
Special Tobacco Bed Fertilizer, 10-5-2	8.85		.34	.03			.5	.28				5.						*2.
Standard Southern Veg. Comp. 7%, 7-6-5	5.25		.94	.03			.5	.28				6.				.3	4.7	
Md. Tobacco Growers Special, 5-8-7	3.5		.69	.03			.5	.28				8.						*7.
Md. Cigarette Tobacco Fertilizer, 5-8-5	3.5		.69	.03			.5	.28				8.						*5.
Fruit and Vine Truck Guano, 5-8-5	3.75		.44	.03			.5	.28				8.					5.	
Royal Crown Tobacco Guano, 4-8-10	2.8		.39	.03			.5	.28				8.						*10.
Red Seal Tobacco Fertilizer, 4-8-5	2.8		.39	.03			.5	.28				8.						*5.
Starkey Truck Compound, 4-8-5	3.		.19	.03			.5	.28				8.					5.	
Super Wheat and Grain Grower, 3-12-3	2.19			.03			.5	.28				12.				.2	2.8	

† Sheep Manure *Sulphate

† Sheep Manure *Sulphate

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Garbage Tankage	Cocoa Shell Meal	Humus	Poultry Manure	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Sulphate
G. Ober & Sons Co., Balto., Md. (Cont.)																		
Sweet Potato Grower, 3-8-8	2.19			.03			.5	.28				8.				1.5	6.5	
Special Compound for Tobacco, 3-8-3	2.1		.09	.03			.5	.28				8.						3.
Red Seal Corn and Wheat Guano, 2-12-4	1.19			.03			.5	.28				12.				.5	3.5	
Special Plant Food, 2-9-5	1.19			.03			.5	.28				9.					5.	
Swan E Guano, 2-9-3	1.19			.03			.5	.28				9.					3.	
Superior Potato and Veg. Grower, 2-8-10	1.19			.03			.5	.28				8.				3.2	6.8	
Special Tobacco Mixture, 2-8-10	1.19			.03			.5	.28				8.						10.
Independent Mixture, 2-8-5	1.19			.03			.5	.28				8.					5.	
Stag Guano, 1-9-4	.19			.03			.5	.28				9.					4.	
High Grade Superphosphate, 0-16-0												16.						
Twelve and Five Potash Comp., 0-12-5												12.					5.	
Muriate of Potash, 0-0-50																		
Sulphate of Potash, 0-0-48																		
Kainit, 0-0-12.40																		
Sulphate of Ammonia, 25-0-0																		
Nitrate of Soda, 18-0-0																		
Refined Ground Bone, 4½-21 T. P. A.																		
Refined Bone Meal, 3-22 T. P. A.																		
Ground Tankage, 9-9.15 T. P. A.																		
Old Gardener Co., Pittsburgh, Pa.																		
Old Gardener High Grade Odorless, (High) 2-10-4	2.											10.				4.		
Pacific Manure & Fertilizer Company, San Francisco, Calif.																		
Groz-it Brand Pulv. Sheep Manure, 1½-¾-3																		
Peerless Fert. Co., Chestertown, Md.																		
Seven, Six, Five	4	2.		1.								6.				4.		*1.
Early Trucker, 5-8-5	2.	1.	1.	1.								5.33		2.67		1.67	3.33	
American Standard, 4-6 5	1.6	.8	.8	.8								4.		2.		1.67		*3.33

* Kainit

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Garbage Tankage	Cocoa Shell Meal	Humus	Ammonium Sulphate Nitrate	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Kainit
Peerless Fertilizer Company, Chestertown, Md. (Continued)																		
Fish Mixture, 3 8-7	1.2	.6	.6	.6	.....	.....	.....	.....	.....	.....	.....	5.33	.....	2.67	.....	2.33	.....	4.67
Jersey Sweet Potato, 2-8-10	.5	.5	.5	.5	.....	.....	.....	.....	.....	.....	.....	7.	.....	1.	.....	8.	.....	*2.
Peerless, 2-8-5	.8	.4	.4	.4	.....	.....	.....	.....	.....	.....	.....	6.	.....	2.	.....	3.33	1.67	.....
Sweet Potato, 2-7-7	.8	.4	.4	.4	.....	.....	.....	.....	.....	.....	.....	4.67	.....	2.33	.....	2.33	4.67	.....
Corn Fertilizer, 1-9-4	.....	.5	.5	.....	.....	.....	.....	.....	.....	.....	.....	9.	.....	.....	.....	1.	.....	3.
Imperial Compound, 1-9-4	.....	.5	.....	.5	.....	.....	.....	.....	.....	.....	.....	6.75	.....	2.25	.....	.75	3.25	.....
Bone Special, ½-10-4	.....	.....	.....	.....	.5	.....	.....	.....	.....	.....	.....	10.	.....	.....	.....	.....	2.	2.
Acid Phosphate, 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Low Grade, 0-12-5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	1.67	3.33	.....
Rock and Kainit, 0 8-6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	.....	.....	6.
Kainit, 0-0-12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Piedmont-Mt. Airy Guano Co., Inc., Baltimore, Md.																		
Gold Rod, 7-6-5	5.	.....	1.5	.5	.....	.....	.....	.....	.....	.....	.....	6.	.....	.....	.....	5.	.....	.....
5-8-5	3.	.....	1.5	.....	.....	.....	.5	.....	.....	.....	.....	8.	.....	.....	.....	5.	.....	.....
Unexcelled Guano, 4-8-4	2.	.5	1.	.....	.....	.....	.5	.....	.....	.....	.....	8.	.....	.....	.....	4.	.....	.....
Champion Trucker, 3-8-5	1.5	.....	1.	.....	.....	.....	.5	.....	.....	.....	.....	8.	.....	.....	.....	5.	.....	.....
Perfection Guano, 2-8-5	.5	.....	1.	.....	.....	.....	.5	.....	.....	.....	.....	8.	.....	.....	.....	5.	.....	.....
Superphosphate, 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Wheat Compound, 0-12-5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	5.	.....	.....
Plantabbs Corp., Successors to Plant Products Co., Baltimore, Md.																		
Fulton's Plantabbs, 13-15-20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pulverized Manure Co., Chicago, Ill.																		
Wizard Br. Pulv. Sheep Manure, 2.43-1-2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wizard Brand Cattle Manure, 2.43-1-1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* Sulphate

* Sulphate

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Urea	Cyanamid	Tankage Base	Tobacco Stems	Ammonium Phosphate	Hoof and Horn Meal	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Tobacco Stems
Rasin-Monumental Co., Balto., Md.																		
Eastern Shore Potato Special, 7-6-5	2.7	.19	.75	.11	.....	.7	.5	.40	.15	1.5	.....	6.	.....	.....	.....	4.5	.....	.5
Seawall Truck Compound, 5-8-5	1.3	.19	.69	.12	.....	.....	.5	.55	.15	1.5	.....	8.	.....	.....	.....	4.4	.....	.5
High Grade Truck Compound, 4-8-7	1.01	.....	.....	.11	.....	.....	.9	.54	.14	1.3	.....	8.	.....	.....	.....	6.6	.....	.4
Double Royal Brand, 4-16-6	1.06	.19	.....	.12	.....	.....	.5	.63	.....	1.5	.....	16.	.....	.....	.....	6.	.....	.....
Victoria High Grade Guano, 4-8-4	1.04	.15	.55	.10	.....	.....	.4	.44	.12	1.2	.....	8.	.....	.....	.....	3.6	.....	.4
Best Tomato and Fruit Formula, 3-10-6	.67	.14	.29	.08	.....	.....	.35	.49	.04	.94	.....	10.	.....	.....	.....	3.93	1.87	.2
Double National Brand, 2-16-8	.....	.18	.....	.12	.....	.....	.....	.7	.....	1.	.....	16.	.....	.....	.....	8.	.....	.....
Comet Grain and Grass Grower, 2-12-4	.....	.....	.....	.12	.....	.....	.....	.73	.15	1.	.....	12.	.....	.....	.....	3.5	.....	.5
Royal Fish and Potash Mixture, 2-9-3	.....	.....	.....	.25	.08	.....	.....	.5	.17	1.	.....	9.	.....	.....	.....	.....	2.25	.75
Vegetable Special, 2-8-10	.....	.....	.....	.12	.....	.....	.....	.55	.13	1.2	.....	8.	.....	.....	.....	9.5	.....	.5
Universal Crop Manure, 2-8-5	.....	.....	.....	.12	.....	.....	.....	.55	.13	1.2	.....	8.	.....	.....	.....	4.5	.....	.5
National Crop Compound, 1-9-4	.....	.....	.....	.12	.....	.....	.....	.6	.28	.....	.....	9.	.....	.....	.....	3.	.....	1.
High Grade Potash Mixture, 0-12-5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	.....	4.5	.5
Phosphate and Lime Mixture, 0-13-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13.	.....	.....	.....	.....	.....	.....
Superphosphate, 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Reindollar Co., Taneytown, Md.																		
Grain Grower, 2-10-5	.5	.5	1.	.....	.....	.....	.....	.....	.....	.....	.....	10.	.....	.....	.....	5.	.....	.....
Superphosphate, 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Rock and Potash, 0-12-6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	6.	.....	.....
F. S. Royster Guano Co., Balto., Md.																		
Arrow 7% Potato Guano, 7-6-5	3.2	1.	2.63	.17	.....	.....	.....	.....	.....	.....	.....	6.	.....	.....	.....	2.5	2.5	.....
Verbena Guano, 5-8-5	4.	.....	.91	.09	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	2.5	2.5	.....
4-16-10 Fertilizer, 4-16-10	3.8	.....	.16	.04	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	10.	.....	.....
Quality Trucker, 4-8-7	3.2	.....	.71	.09	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	4.5	2.5	.....
Trucker's Delight, 4-8-4	3.2	.....	.71	.09	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	.....	4.	.....
Curlew Guano, 3-10-6	2.4	.....	.47	.08	.....	.....	.....	.....	.....	.....	.05	10.	.....	.....	.....	3.17	2.83	.....
Ideal Guano, 3-8-8	2.4	.....	.44	.09	.....	.....	.....	.....	.....	.....	.07	8.	.....	.....	.....	6.	2.	.....
Gem Guano, 2-12-4	1.6	.....	.18	.09	.....	.....	.....	.....	.....	.....	.13	12.	.....	.....	.....	.....	4.	.....
Vim Guano, 2-12-2	1.6	.....	.18	.09	.....	.....	.....	.....	.....	.....	.13	12.	.....	.....	.....	.....	2.	.....
Fish, Flesh, and Fowl, 2-9-3	1.6	.....	.18	.09	.....	.....	.....	.....	.....	.....	.13	9.	.....	.....	.....	.....	3.	.....
Banner Guano, 2-8-10	1.6	.....	.18	.09	.....	.....	.....	.....	.....	.....	.13	8.	.....	.....	.....	5.	5.	.....

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Garbage Tankage	Cocoa Shell Meal	Hoof and Horn Meal	Blood	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Sulphate
F. S. Royster Guano Company, Baltimore, Md. (Continued)																		
Bully Guano, 2-8-5	1.6		.18	.09						.13		8.					5.	
Rational Guano, 1-9-4	.4		.51	.09								9.					4.	
Phosphate and Potash, 0-12-5												12.					5.	
Phosphate and Potash, 0-10-4												10.					4.	
Superphosphate, 0-20-0												20.						
Superphosphate, 0-16-0												16.						
Nitrate of Soda, 18.24-0-0																		
Raw Bone Meal, 4½-20.60 T. P. A.																		
Muriate of Potash, 0-0-48																		
Genuine German Kainit, 0-0-12.40																		
R. H. Slingluff Fertilizer Company, Baltimore, Md.																		
10% Tob. Bed with 2% Potash, 10-4-2	6.25	2.	1.5					.25				3.	1.					2.
Standard Wholesale Phosphate & Acid Works, Inc., Baltimore, Md.																		
Jumbo Potato Grower, 7-6-5	5.6		.5	.5	.2						.2	5.45	.2	.2	.15	3.	2.	
Fish Bone and Potash, 5-8-7	3.3		.5	.5	.35						.35	7.2	.3	.3	.2	5.	2.	
Accomac Peninsula King, 5-8-5	3.3		.5	.5	.35						.35	7.2	.3	.3	.2	3.	2.	
Evergreen Fish Guano, 4-8-4	2.6		.4	.4	.3						.3	7.2	.3	.3	.2	2.	2.	
Truckers Fish Guano, 3-8-3	2.		.3	.3	.2						.2	7.2	.3	.3	.2	1.	2.	
Service Mixture, 2-12-6	1.3		.2	.2	.15						.15	11.2	.3	.3	.2	5.	1.	
Mammoth Potato Grower, 2-8-10	1.3		.2	.2	.15						.15	7.2	.3	.3	.2	8.	2.	
Mammoth Truck Grower, 2-8-5	1.3		.2	.2	.15						.15	7.2	.3	.3	.2	2.	3.	
Old Fertility, 2-8-3	1.3		.2	.2	.15						.15	7.2	.3	.3	.2	.5	2.5	
Sulphate of Ammonia, 25-0-0																		
Nitrate of Soda, 18-0-0																		
Superphosphate, 0-20-0												20.						
Superphosphate, 0-16-0												16.						
High Grade Phos. and Potash, 0-12-5												12.				3.	2.	
Muriate of Potash, 0-0-48																		

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Urea	Garbage Tankage	Humus	Ammonium Phosphate	Super Phosphate	Tankage	Fish	Ammonium Phosphate	Muriate	Manure Salts	Sulphate
Stimuplant Laboratories, Inc., Long Island City, N. Y.																		
Stimuplant, 13.35-12-15																		
Stimugerm																		
Stimugerm Jelly																		
Strasburger & Siegel, Baltimore, Md.																		
Super Yield Cultures																		
Summers Fert. Co., Inc., Balto., Md.																		
"Best on Earth" Potato Special, 7-6-5	3.5	2.	1.5									6.				5.		
"Best on Earth" Truckers' Favorite, 5-8-5	3.75	.5	.75									8.				3.	2.	
"Best on Earth" Jones' Favorite, 3-12-5	2.25	.25	.5									12.				3.	2.	
"Best on Earth" Wheat Special, 2-12-2	1.25					.25			.5			12.				2.		
"Best on Earth" All Crop Grower, 2-8-5	1.5					.25			.25			8.					5.	
"Best on Earth" Superphosphate, 0-16-0												16.						
"Best on Earth" Phospho-Potash, 0-12-5												12.					5.	
Swift & Company, Baltimore, Md.																		
Red Steer, 10-5-2	6.5	2.4						.5			.6	4.2			.8			2.
Red Steer, 10-5-0	6.5	2.4						.5			.6	4.2			.8			
Red Steer, 7-11-7	5.45	.2	.1								1.25	9.6			1.4	7.		
Red Steer, 7-6-5	3.4	1.6	.3					1.			.7	5.05			.95	5.		
Red Steer, 5-8-5	2.1	1.	.2					.8			.9	6.8			1.2	5.		
Vigoro, 4.86-12-4	2.82	.46								.22	1.36	10.3			1.7	4.		
Red Steer, 4-16-10	1.9	.2	.1								1.8	13.6			2.4	10.		
Red Steer, 4-16-4	1.9	.2	.1								1.8	13.6			2.4	4.		
Red Steer, 4-12-4	1.2	.2	.2					1.1			1.3	10.3			1.7		4.	
Red Steer, 4-8-10	1.5	.8	.2					.6			.9	6.8			1.2	10.		
Red Steer, 4-8-7	1.5	.8	.2					.6			.9	6.8			1.2	5.3	1.7	
Red Steer, 4-8-4	1.5	.8	.2					.6			.9	6.8			1.2		4.	
Red Steer, 3-10-6	.8	.2	.2					.7			1.1	8.6			1.4		6.	
Red Steer, 3-8-8	.9	.5	.2					.5			.9	6.8			1.2	6.6	1.4	

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Urea	Cocoa Shell Meal	Humus	Ammonium Phosphate	Super Phosphate	Tankage	Fish	Ammonium Phosphate	Muriate	Manure Salts	Kainit
Swift & Co., Baltimore, Md. (Cont.)																		
Red Steer, 3-8-5	1.	.2	.2	.....	.....	.....	.....	.7	.....	.....	.9	6.8	.....	.....	1.2	.....	5.	.....
Red Steer, 3-8-3	1.	.2	.2	.....	.....	.....	.....	.7	.....	.....	.9	6.8	.....	.....	1.2	.....	3.	.....
Red Steer, 2-16-8	.08	.02	.1	.....	.....	.....	.....	.....	.....	.....	1.8	13.6	.....	.....	2.4	8.	.....	.....
Red Steer, 2-12-4	.04	.1	.....	.....	.....	.....	.....	.5	.....	.....	1.36	10.2	.....	.....	1.8	.....	4.	.....
Red Steer, 2-12-2	.....	.12	.03	.....	.....	.....	.....	.5	.....	.....	1.35	10.2	.....	.....	1.8	.....	2.	.....
Red Steer, 2-8-10	.4	.1	.1	.....	.....	.....	.....	.5	.....	.....	.9	6.8	.....	.....	1.2	.....	10.	.....
Red Steer, 2-8-5	.4	.1	.1	.....	.....	.....	.....	.5	.....	.....	.9	6.8	.....	.....	1.2	.....	5.	.....
Red Steer, 1-9-4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.	7.7	.....	.....	1.3	.....	4.	.....
Superphosphate, 0-20-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20.	.....	.....	.....	.....	.....	.....
Superphosphate, 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Red Steer, 0-12-5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	.....	5.	.....
Red Steer, 0-10-10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10.	.....	.....	.....	.....	10.	.....
Muriate of Potash, 0-0-48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Kainit, 0-0-12.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nitrate of Soda, 18-0-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Raw Bone Meal Fertilizer, 4½-20 T. P. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bone Meal Fertilizer, 3-22 T. P. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tankage, 9-1 T. P. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tankage, 6-12 T. P. A.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Synthetic Nitrogen Products Corp., New York, N. Y.																		
Urea (Floranid-Urea), 55.93-0-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cal-Nitro, 24.92-0-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Calcium Nitrate, (Nitrate of Lime), 18.24-0-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nitrophoska No. 1, 18.24-30-15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Nitrophoska No. 2, 20.06-16½-21½	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tennessee Copper & Chemical Corp., Lockland, Ohio.																		
Loma, 5-10-4	3.7	.4	.35	.....	.....	.....	.55	.....	.....	.....	.....	10.	.....	.....	.....	4.	.....	.....

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Garbage Tankage	Cocoa Shell Meal	Humus	Poultry Manure	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Kainit
I. P. Thomas & Son Co., Phila., Pa.																		
7% Guano, 7-6-5	5.	.5	.5	.5			.5					6.				5.		
Fish and Potash Fertilizer, 5-8-5	3.5	.5	.25	.25			.5					8.				5.		
Tip-Top, 3-10-6	2.5		.5									10.				6.		
Sweet Potato, 3-8-8	2.5		.5									8.				8.		
10% Sweet Potato, 2-8-10	1.5		.5									8.				10.		
Victor Potash Fertilizer, 2-8-5	1.5		.5									8.				5.		
1-9-4	.7		.3									9.				4.		
Superphosphate, 0-16-0												16.						
Potash Mixture, 0-12-5												12.				5.		
Kainit, 0-0-12.40																		
Wm. B. Tilghman Co., Salisbury, Md.																		
Irish P. Guano, 7-6-5	4.6	.4	.8	.7							.5	5.2	.5	.3		5.		
Topdresser, 6-6-6	3.	2.4									.6	6.				6.		
Early Truck Guano, 5-8-5	3.5		.4	.7							.4	7.2	.5	.3		5.		
Mixture "A", 4-8-10	2.8		.4	.5							.3	7.5	.3	.2		10.		
Melon Mixture, 4-8-6	1.5		.2	2.							.3	7.		1.		6.		
Mixture "B", 4-8-4	2.6		.4	.7							.3	7.5	.3	.2		3.	1.	
"S. P." Mixture, 3-8-8	1.9		.3	.5							.3	7.6	.2	.2		8.		
High Grade Potash Mixture, 2-8-10	1.2		.2	.3							.3	7.6	.2	.2		10.		
Standard, 2-8-5	1.2		.2	.3							.3	7.6	.2	.2		2.5	2.5	
Special Grain Fertilizer, 1-10-5	.6		.2								.2	9.8	.2			3.	2.	
Pure Raw Bone Meal, 4½-21½ T. P. A.																		
Superphosphate, 0-16-0												16.						
Nitrate of Soda, 18-0-0																		
Kainit, 0-0-12.40																		
Muriate of Potash, 0-0-50																		
F. W. Tunnell & Co., Inc., Phila., Pa.																		
Nitrate of Soda, 18-0-0																		
Virginia Potato Manure, 7-6-5	3.75	1.75	1.5									5.	1.			5.		
Nassau County Potato Manure, 5-8-5	2.5	1.	1.5									7.	1.			5.		
Three M Potato Manure, 4-8-7	1.7	.8	1.5									7.	1.			7.		

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Urea	Cyanamid	Garbage Tankage	Tobacco Stems	Ammonium Phosphate	Animal Base	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Kainit
F. W. Tunnell & Co., Inc., Philadelphia, Pa. (Continued)																		
Fish Manure with Potash, 2-10-6	.75	.5	.5	.25								8.	2.			6.		
Red Diamond Potato and Truck Guano, 2-8-10	.75	.5	.75									7.	1.			10.		
Veribest Cereal Manure, 2-8-5	.5		1.5									7.	1.			5.		
Wheat and Cereal Manure, 1-9-4			1.									7.5	1.5			2.	2.	
Tunnell's Special, 1-8-6			1.									7.	1.			3.	3.	
Acid Phosphate, 0-16-0												16.						
Potash Manure, 0-12-5												12.				3.	2.	
Urbana Laboratories, Urbana, Ill.																		
Urbana Culture																		
Valliant Fertilizer Co., Laurel, Del.																		
Jewel, 7-6-5	4.6		.25	.25				.2			1.7	6.				3.	2.	
Arcadia, 5-8-5	3.5		1.	.3				.2				8.				3.	2.	
Winner, 4-8-10	2.2		.5	.5							.8	8.				9.25	.75	
Gem, 2-8-10	1.		.3					.2			.5	8.				10.		
Diamond, 2-8-5	1.		.3					.2			.5	8.				2.	3.	
Fam-us, 1-9-4	.5							.25			.25	9.					1.	3.
Superphosphate, 0-16-0												16.						
E. S. Valliant & Son, Centreville, Md.																		
Keystone, 2-8-5	1.25						.5	.25				8.					2.	3.
Standard, 1-9-4							.8	.2				9.						4.
Ideal, 0-12-6												12.					6.	
Harvest, 0-12-5												12.					4.	1.
Virginia-Carolina Chemical Corp., Baltimore, Md.																		
American Fertilizer, 7-6-5	2.7	.19	.75	.11		.7	.5	†.4	.15	1.5		6.				4.5		*.5
American Truckers Special, 5-8-5	1.3	.19	.69	.12			.5	†.55	.15	1.5		8.				4.5		*.5
American Gilt Edge Truck Mix., 4-8-7	1.01			.11			.9	†.54	.14	1.3		8.				6.6		*.4

† Tankage Base * Tobacco Stems

† Tankage Base * Tobacco Stems

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Urea	Cyanamid	Tankage Base	Tobacco Stems	Ammonium Phosphate	Cocoa Meal	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Tobacco Stems
Virginia-Carolina Chemical Corp., Baltimore, Md. (Continued)																		
American Vegetable Special, 4-8-4	1.04	.15	.55	.1			.4	.44	.12	1.2		8.				3.6		.4
American Double Special Brand, 4-16-6	1.06	.19		.12			.5	.63		1.5		16.				6.		
American Premium Grain and Clover Mixture, 2-12-2				.12				.73	.15	1.		12.					1.5	.5
American Prize Guano, 2-8-10				.12				.55	.13	1.2		8.				9.5		.5
American Fish and Potash Comp., 2-9-3				.25	.08			.5	.17	1.		9.					2.25	.75
American Panacea Guano, 2-12-4				.12				.73	.15	1.		12.				3.5		.5
American Excelsior Guano, 2-8-5				.12				.55	.13	1.2		8.				4.5		.5
American Champion Grain Grower, 1-9-4				.12				.6	.28			9.				3.		1.
Amer. High Grade Potash Mix., 0-12-5												12.					4.5	.5
American Special Potash Mix., 0-10-4												10.					3.6	.4
American High Grade Superphos., 0-16-0												16.						
American Phospho Tobacco, 0-13-0												13.						
V-C Tobacco Bed Special, 10-5-0	7.8	1.92		.13					.15			5.						
V-C 7% Truck Fertilizer, 7-6-5	2.7	.19	.75	.11		.7	.5	.4	.15	1.5		6.				4.5		.5
V-C Virginia Trucker, 5-8-5	1.3	.19	.69	.12			.5	.55	.15	1.5		8.				4.5		.5
V-C Double Owl Brand, 4-8-7	1.01			.11			.9	.54	.14	1.3		8.				6.6		.4
V-C XXXX Fish and Potash, 4-8-4	1.04	.15	.55	.10			.4	.44	.12	1.2		8.				3.6		.4
V-C Double Empire Brand, 4-16-6	1.06	.19		.12			.5		.63	1.5		16.				6.		
V-C Super 26 Fertilizer, 2-16-8		.18		.12				.7		1.		16.				8.		
V-C Owl Brand Fertilizer, 2-12-4				.12				.73	.15	1.		12.				3.5		.5
V-C Valley Pride, 2-12-2				.12				.73	.15	1.		12.					1.5	.5
V-C Fish, Bone, and Potash, 2-9-3				.25	.08			.5	.17	1.		9.					2.25	.75
V-C Indian Brand Fertilizer, 2-8-10				.12				.55	.13	1.2		8.				9.5		.5
V-C Universal Crop Manure, 2-8-5				.12				.55	.13	1.2		8.				4.5		.5
V-C Star Brand Fertilizer, 1-9-4				.12				.6	.28			9.				3.		1.
V-C High Grade Potash Mixture, 0-12-5												12.					4.5	.5
V-C Superphosphate, 0-20-0												20.						
V-C Superphosphate, 0-16-0												16.						
Genuine Imported Kainit, 0-0-12.40																		
Muriate of Potash, 0-0-48																		
Ground Tankage, 9-0-0																		

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Blood	Cocoa Meal	Garbage Tankage	Tobacco Stems	Ammonium Phosphate	Cotton Seed Meal	Super Phosphate	Ammonium Phosphate	Fish	Bone	Muriate	Manure Salts	Sulphate
Virginia-Carolina Chemical Corp., Baltimore, Md. (Continued)																		
Nitrate of Soda, 18-0-0	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sulphate of Ammonia, 25-0-0	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fine Ground Bone, 3-22.88 T. P. A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pure Raw Bone, 4½-21.51 T. P. A.	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Bloomaid, Liquid Form, 12-14-6	2.69	6.	....	....	....	....	....	....	....	3.31	....	....	14.	....	....	....	....	6.
V-C Fairway Fertilizer, 8-6-5	5.	....	.5	....	....	....	....	....	.5	....	2.	6.	....	....	....	4.5	....	.5
Bloomaid, Tablet Form, 12-14-6	8.18	....	....	....	....	....	....	....	....	3.82	....	....	14.	....	....	....	....	6.
Bloomaid, 6-10-4	3.3	1.	1.	....	....	....	....	....	....	....	.7	10.	....	....	....	....	....	4.
Wessel, Duval & Co., New York, N. Y.																		
Chilean Nitrate of Soda, 18.54-0-0	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Westminster Fertilizer Company, Westminster, Md.																		
2-8-5	1.	.25	.25	....	....	....	.25	.25	....	....	....	8.	....	....	....	2.	3.	....
Super-A, 1-10-2	.375	.125	.15	....	....	....	.175	.175	....	....	....	10.	....	....	....	....	2.	....
Leader, 1-9-4	.375	.125	.15	....	....	....	.175	.175	....	....	....	9.	....	....	....	1.	3.	....
Acid Phosphate, 0-16-0	....	....	....	....	....	....	....	....	....	....	....	16.	....	....	....	....	....	....
A. S. Woolley Co., Inc., Seaford, Del.																		
Special Top Dressing, 4½-8-2	....	3.	1.	....	....	.5	....	....	....	....	....	8.	....	....	....	2.	....	....
Special Sweet Potato Fertilizer, 3-8-8	1.	....	1.	1.	....	....	....	....	....	....	....	8.	....	....	....	8.	....	....
Truck Fertilizer, 3-8-5	1.	....	.5	1.5	....	....	....	....	....	....	....	8.	....	....	....	5.	....	....
Special Tomato Fertilizer, 2-8-5	.75	....	.5	.75	....	....	....	....	....	....	....	8.	....	....	....	3.	2.	....
5% Potash Mixture, 0-12-5	....	....	....	....	....	....	....	....	....	....	....	12.	....	....	....	5.	....	....
Worcester Fert. Co., Snow Hill, Md.																		
Correct Plant Food Mixture, 7-6-5	4.	.9	1.4	.7	....	....	....	....	....	....	....	6.	....	....	....	5.	....	....
Correct Plant Food Mixture, 5-8-5	3.	.4	1.1	.5	....	....	....	....	....	....	....	8.	....	....	....	5.	....	....
Superphosphate, 0-16-0	....	....	....	....	....	....	....	....	....	....	....	16.	....	....	....	....	....	....

FIRMS AND BRANDS	Ammonia											Phosphoric Acid—Available				Potash—Soluble		
	Sulphate	Nitrate of Soda	Tankage	Fish	Bone	Base Goods	Cyanamid	Garbage Tankage	Cocoa Shell Meal	Humus	Cocoa Meal	Super Phosphate	Tankage	Fish	Bone	Muriate	Manure Salts	Sulphate
York Chemical Works, York, Pa.																		
Dempwolf's High Test, 8-16-14	7.1	.....	.5	.....	.....	.....	.....	.....	.....	.....	.4	16.	.....	.....	.....	14.	.....	.....
Dempwolf's Garden Fertilizer, 5-8-5	4.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.3	8.	.....	.....	.....	.....	.....	5.
Dempwolf's Four-Sixteen-Ten, 4-16-10	3.3	.....	.4	.....	.....	.....	.....	.....	.....	.....	.3	16.	.....	.....	.....	10.	.....	.....
Dempwolf's Two-Twelve-Four, 2-12-4	1.7	.....	.3	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	1.	3.	.....
Dempwolf's Standard, 2-8-5	1.7	.....	.3	.....	.....	.....	.....	.....	.....	.....	.....	8.	.....	.....	.....	.....	5.	.....
Dempwolf's Standard Potash, 1-9-4	.4	.3	.3	.....	.....	.....	.....	.....	.....	.....	.....	9.	.....	.....	.....	.....	4.	.....
Dempwolf's Superphosphate, 0-20-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	20.	.....	.....	.....	.....	.....	.....
Dempwolf's Superphosphate, 0-16-0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16.	.....	.....	.....	.....	.....	.....
Dempwolf's Twelve and Five, 0-12-5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12.	.....	.....	.....	.....	5.	.....

CLASSIFICATION OF FERTILIZERS EXAMINED DURING 1929

In 1929, official sampling agents secured from dealers or in transit 1,279 samples of fertilizers or fertilizing materials. All were subjected to chemical examination. Of the above number of samples, 503 are covered by reports in this bulletin, representing shipments and sales made during the fall season.

In addition to the analysis of the official samples included in this report, 108 samples, forwarded to us by purchasers under the provision of Section 9 of the Fertilizer Law, have been examined and reports of such analyses have been transmitted to the parties particularly interested.

All fertilizers and fertilizing materials analyzed by this department in 1929 have been classified according to their chief active ingredient. These data have been summarized for the readers' convenience in the following table:

1. Containing Nitrogen as the chief active ingredient:	
Nitrate of Soda	23
Sulphate of Ammonia	13
Urea	1
2. Containing Phosphoric Acid as the chief active ingredient:	
Superphosphate	91
Lime Phosphate	16
3. Containing Potash as the chief active ingredient:	
Sulphate of Potash	2
Muriate of Potash	10
Kainit	38
Manure Salts	2
4. Containing Nitrogen and Potash:	
Nitrogen and Potash	0
5. Containing Nitrogen and Phosphoric Acid:	
Tankage	5
Ground Bone	37
6. Mixed Fertilizers:	
Containing Nitrogen and Phosphoric Acid	10
Containing Phosphoric Acid and Potash	112
Containing Nitrogen, Phosphoric Acid, and Potash	874
7. Miscellaneous Fertilizers:	
Sheep Manure	11
Sheep and Goat Manure	8
Blood Meal	4
Cattle Manure	4
Other Miscellaneous	18
	1279

COMPARATIVE VALUES

The valuations adopted for the past fall season and given below are chiefly of use in making comparisons of the relative values of the various fertilizers analyzed.

It has been found impossible to fix a single scale of valuations adapted to the numerous points of consumption throughout the State, as there is in some cases quite a difference existing in the transportation charges from points of manufacture to user. It is our desire to show the average cost of fertilizer materials to manufacturers f. o. b. Baltimore, without taking into consideration expenses incidental to manufacture and distribution together with a fair manufacturer's profit.

The valuations employed in this bulletin for calculating the approximate relative values of fertilizers are as follows:

Table for Calculating Fertilizer Values

	Per Unit
(1) Nitrogen calculated as ammonia	$4.00
(2) Available phosphoric acid:	
(a) In mixed fertilizers or in dissolved rock	.80
(b) In tankage or ground bone	.60
(3) Insoluble phosphoric acid	.15
(4) Potash	.80

VALUES

To compute values of fertilizers on this scale, multiply the percentage of each plant food in the fertilizer by the respective value per unit given in the table and add the results together.

Take for example a complete fertilizer with an analysis of 2-8-5. We would have two per cent. of ammonia, eight per cent. of phosphoric acid and five per cent. of potash. Since by the preceding table ammonia is worth $4.00 per unit, available phosphoric acid, 80 cents, and potash, 80 cents, we have $18.40.

2 × $4.00=$8.00, value of ammonia
8 × .80= 6.40, value of phosphoric acid
5 × .80= 4.00, value of potash

$18.40, value of fertilizer per ton.

TABLES

The following pages contain the guarantees and analyses of 503 brands of commercial fertilizers examined from July 1, 1929, to January 1, 1930.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		SUPERPHOSPHATE				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Agricultural Corp. of Maryland, Baltimore, Md.													
Md. Farm Bureau Super Phosphate	Baltimore	....	....	....	....	**1.50**	....	**18.50**	16.00	....	....	**$15.03**	$12.80
Md. Farm Bureau 1-9-4	Baltimore	**.51**	.60	**1.11**	1.00	**2.65**	....	**8.15**	9.00	**4.38**	4.00	**14.86**	14.40
Md. Farm Bureau 2-8-5	Baltimore	**1.60**	1.60	**1.98**	2.00	**1.85**	....	**7.85**	8.00	**5.28**	5.00	**18.70**	18.40
Md. Farm Bureau 0-12-5	Baltimore	....	....	....	....	**1.55**	....	**12.15**	12.00	**5.20**	5.00	**14.11**	13.60
Md. Farm Bureau 0-12-5	Baltimore	....	....	....	....	**.60**	....	**13.10**	12.00	**5.00**	5.00	**14.57**	13.60
American Agricultural Chemical Co., New York, N. Y.													
Superphosphate	Baltimore	....	....	....	....	**1.30**	....	**16.60**	16.00	....	....	**13.48**	12.80
Superphosphate	Baltimore	....	....	....	....	**1.35**	....	**16.65**	16.00	....	....	**13.52**	12.80
Superphosphate	Baltimore	....	....	....	....	**.85**	....	**16.75**	16.00	....	....	**13.53**	12.80
Agrico for Grain	Baltimore	**1.78**	1.03	**1.98**	2.00	**1.20**	....	**12.80**	12.00	**4.24**	4.00	**21.73**	20.80
Agrico for Grain	Baltimore	**1.81**	1.03	**1.98**	2.00	**1.50**	....	**12.10**	12.00	**4.36**	4.00	**21.32**	20.80
Basic Lime Phosphate	Baltimore	....	....	....	....	**2.15**	....	**13.35**	13.00	....	....	**11.00**	10.40
Basic Lime Phosphate	Baltimore	....	....	....	....	**1.95**	....	**13.45**	13.00	....	....	**11.05**	10.40
Farmer's Friend Fertilizer	Upper Marlboro	**1.79**	1.03	**2.03**	2.00	**1.25**	....	**12.35**	12.00	**4.08**	4.00	**21.45**	20.80
Farmer's Friend Fertilizer	Baltimore	**1.84**	1.03	**1.98**	2.00	**1.60**	....	**12.00**	12.00	**4.08**	4.00	**21.02**	20.80
Fine Ground Bone	Upper Marlboro	....	....	**2.90**	3.00	....	....	***27.10**	*22.88	....	....	**27.86**	25.73
Kangaroo Komplete Kompound	Baltimore	**1.75**	1.03	**2.06**	2.00	**1.15**	....	**10.25**	9.00	**3.24**	3.00	**19.20**	17.60
Kangaroo Komplete Kompound	Baltimore	**1.77**	1.03	**2.08**	2.00	**1.45**	....	**10.35**	9.00	**3.40**	3.00	**19.54**	17.60
Kangaroo Komplete Kompound	Baltimore	**1.86**	1.03	**2.10**	2.00	**1.75**	....	**9.95**	9.00	**3.20**	3.00	**19.18**	17.60
Old Hickory Fertilizer	Baltimore	**1.67**	1.03	**1.95**	2.00	**1.25**	....	**8.15**	8.00	**10.36**	10.00	**22.80**	22.40
Old Hickory Fertilizer	Upper Marlboro	**1.71**	1.03	**1.88**	2.00	**1.10**	....	**8.20**	8.00	**10.08**	10.00	**22.31**	22.40
Pulverized Sheep and Goat Manure	Hyattsville	....	....	**1.72**	1.50	....	....	***1.30**	*1.00	**3.20**	2.00	**10.22**	8.20
Pure Raw Bone	Baltimore	....	....	**4.88**	4.50	....	....	***21.80**	*20.60	....	....	**32.60**	30.36

Pure Raw Bone	Baltimore	....	....	**4.78**	4.50	....	....	***20.00**	*20.60	....	....	**31.12**	30.36
Pure Raw Bone	Baltimore	....	....	**4.86**	4.50	....	....	***20.50**	*20.60	....	....	**31.74**	30.36
Red Dog Fertilizer	Baltimore	**1.76**	1.03	**2.00**	2.00	**1.10**	....	**8.60**	8.00	**5.22**	5.00	**19.23**	18.40
Red Dog Fertilizer	Waldorf	**1.86**	1.03	**2.03**	2.00	**1.35**	....	**8.35**	8.00	**5.10**	5.00	**19.08**	18.40
Red Dog Fertilizer	Baltimore	**1.74**	1.03	**2.00**	2.00	**1.20**	....	**8.70**	8.00	**5.24**	5.00	**19.33**	18.40
Red Dog Fertilizer	Baltimore	**1.73**	1.03	**2.00**	2.00	**1.35**	....	**8.35**	8.00	**5.18**	5.00	**19.02**	18.40
Victory Mixture	Baltimore	....	....	....	....	**1.45**	....	**12.25**	12.00	**5.08**	5.00	**14.08**	13.60
Victory Mixture	Baltimore	....	....	....	....	**1.05**	....	**12.65**	12.00	**5.26**	5.00	**14.49**	13.60
Victory Mixture	Baltimore	....	....	....	....	**1.20**	....	**12.80**	12.00	**5.28**	5.00	**14.64**	13.60
Victory Mixture	Baltimore	....	....	....	....	**1.05**	....	**12.85**	12.00	**5.22**	5.00	**14.62**	13.60
Listers Superphosphate	Baltimore	....	....	....	....	**.85**	....	**16.95**	16.00	....	....	**13.69**	12.80
Armour Fertilizer Works, Balto., Md.													
Big Crop Superphosphate	Baltimore	....	....	....	....	**.20**	....	**21.70**	20.00	....	....	**17.39**	16.00
Big Crop Bone Mixture	Baltimore	**1.69**	1.00	**1.95**	2.00	**3.15**	....	**9.05**	9.00	**3.30**	3.00	**18.15**	17.60
Big Crop 4-16-4	Baltimore	**3.84**	2.42	**3.98**	4.00	**.90**	....	**17.00**	16.00	**4.04**	4.00	**32.89**	32.00
Big Crop 4-16-10	Baltimore	**3.86**	2.00	**4.03**	4.00	**.25**	....	**16.75**	16.00	**10.40**	10.00	**37.88**	36.80
Big Crop 4-16-10	Rising Sun	**3.75**	2.00	**3.84**	4.00	**.25**	....	**16.35**	16.00	**10.00**	10.00	**36.48**	36.80
Big Crop 1-9-4	Middletown	**.87**	.50	**1.16**	1.00	**.45**	....	**9.35**	9.00	**4.24**	4.00	**15.58**	14.40
Big Crop 1-9-4	Ridgely	**.89**	.50	**1.06**	1.00	**.10**	....	**9.90**	9.00	**4.10**	4.00	**15.46**	14.40
Kainit	Baltimore	....	....	....	....	....	....	....	....	**13.76**	12.00	....	....
Lime Phosphate	Baltimore	....	....	....	....	**.80**	....	**13.30**	13.00	....	....	**10.76**	10.40
Lime Phosphate	Baltimore	....	....	....	....	**1.00**	....	**14.40**	13.00	....	....	**11.67**	10.40
Nitrate of Soda	Clinton	....	....	**18.98**	18.00	....	....	....	....	....	....	....	....
Big Crop 2-8-5	Baltimore	**1.88**	1.00	**2.05**	2.00	**.75**	....	**8.35**	8.00	**5.36**	5.00	**19.28**	18.40
Big Crop 2-8-10	Rising Sun	**1.98**	1.00	**2.15**	2.00	**.70**	....	**8.60**	8.00	**10.44**	10.00	**23.94**	22.40
Big Crop 2-16-8	Middletown	**1.69**	1.00	**2.01**	2.00	**.55**	....	**16.55**	16.00	**8.40**	8.00	**28.08**	27.20
Big Crop 2-12-4	Baltimore	**1.74**	1.00	**2.15**	2.00	**.65**	....	**12.85**	12.00	**4.40**	4.00	**22.50**	20.80
Big Crop 2-12-2	Boonsboro	**1.72**	1.00	**2.10**	2.00	**.90**	....	**12.20**	12.00	**2.38**	2.00	**20.20**	19.20
Big Crop 0-12-5	Baltimore	....	....	....	....	**.40**	....	**12.70**	12.00	**5.12**	5.00	**14.32**	13.60
Big Crop 0-12-5	Baltimore	....	....	....	....	**.30**	....	**12.70**	12.00	**5.00**	5.00	**14.21**	13.60
NPK	Elkton	**10.98**	....	**11.13**	10.94	**.75**	....	**19.65**	18.00	**18.32**	18.00	**75.01**	72.56
Sheep and Goat Manure	Baltimore	**.34**	....	**1.74**	1.50	....	....	***2.20**	*1.00	**3.60**	2.00	**11.16**	8.20

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		SUPERPHOSPHATE				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Associated Chemical Company, Baltimore, Md.													
Fine Bone Meal	Fallston	....	....	**2.80**	3.00	....	....	*28.30	*23.00	....	....	$28.18	$25.80
Muriate of Potash	Fallston	....	....	....	....	....	....	....	....	**48.10**	48.00	....	....
Pure Raw Bone	Clinton	....	....	**4.73**	4.50	....	....	*21.40	*20.00	....	....	**31.76**	30.00
Sheep Manure	Baltimore	....	....	**2.97**	2.25	....	....	*1.30	*1.00	**2.18**	2.00	**14.40**	11.20
Baltimore Fertilizer Company, Baltimore, Md.													
Honest Acid Phosphate	Baltimore	....	....	....	....	**.85**	....	**16.65**	16.00	....	....	**13.45**	12.80
Honest Acid Phosphate	Baltimore	....	....	....	....	**.75**	....	**17.35**	16.00	....	....	**13.99**	12.80
Honest 4-8-7	La Plata	**3.43**	.60	**3.99**	4.00	**.70**	....	**8.00**	8.00	**7.36**	7.00	**28.36**	28.00
Honest 1-9-4	La Plata	**.60**	.31	**1.01**	1.00	**.80**	....	**9.00**	9.00	**4.24**	4.00	**14.75**	14.40
Honest 1-9-4	Baltimore	**.66**	.31	**1.04**	1.00	**.90**	....	**9.20**	9.00	**4.10**	4.00	**14.94**	14.40
Honest 1-9-4	Glyndon	**.71**	.31	**1.09**	1.00	**.75**	....	**9.45**	9.00	**4.36**	4.00	**15.52**	14.40
Honest 2-8-5	Baltimore	**1.43**	.60	**1.98**	2.00	**.85**	....	**8.35**	8.00	**5.34**	5.00	**19.00**	18.40
Honest 2-8-5	Bel Air	**1.54**	.60	**1.98**	2.00	**.85**	....	**8.25**	8.00	**6.40**	5.00	**19.77**	18.40
Honest 2-8-5	Fallston	**1.41**	.60	**1.79**	2.00	**.75**	....	**9.45**	8.00	**5.00**	5.00	**18.83**	18.40
Honest 2-8-5	La Plata	**1.55**	.60	**1.93**	2.00	**.35**	....	**8.15**	8.00	**5.38**	5.00	**18.59**	18.40
Honest 2-8-5	Baltimore	**1.52**	.60	**2.10**	2.00	**.85**	....	**8.15**	8.00	**5.34**	5.00	**19.32**	18.40
Honest 2-8-5	Glyndon	**1.68**	.60	**2.06**	2.00	**.40**	....	**8.30**	8.00	**5.32**	5.00	**19.74**	18.40
Honest 3-8-5	Baltimore	**1.99**	.60	**2.59**	3.00	**.55**	....	**8.25**	8.00	**5.36**	5.00	**21.33**	22.40
Honest 3-8-5	Baltimore	**2.46**	.60	**2.90**	3.00	**1.00**	....	**8.20**	8.00	**5.30**	5.00	**22.55**	22.40
Honest 0-12-5	Baltimore	....	....	....	....	**.95**	....	**12.75**	12.00	**5.36**	5.00	**14.63**	13.60
Old Honesty 1-11-2	La Plata	**.70**	.31	**1.14**	1.00	**.45**	....	**11.00**	11.00	**2.40**	2.00	**15.35**	14.40
Old Honesty 1-11-2	Glyndon	**.81**	.49	**1.08**	1.00	**.75**	....	**11.75**	11.00	**2.30**	2.00	**15.67**	14.40

Baltimore Pulv'g Co., Baltimore, Md.													
Ideal Fertilizer 2-8-5	Baltimore	**1.64**	1.21	**2.15**	2.00	**2.80**	....	**7.00**	8.00	**6.00**	5.00	**19.42**	18.40
Royal Compound	Baltimore	**1.40**	1.21	**2.12**	2.00	**.90**	....	**12.00**	12.00	**4.48**	4.00	**21.80**	20.80
Royal Compound	Baltimore	**1.85**	1.21	**1.88**	2.00	**.90**	....	**12.00**	12.00	**4.38**	4.00	**20.76**	20.80
Spring and Fall Mixture	Baltimore	....	....	....	....	**1.15**	....	**8.05**	8.00	**6.40**	6.00	**11.73**	11.20
Barrett Co., New York, N. Y.													
Arcadian Nitrate of Soda	Silver Spring	....	....	**19.80**	19.77	....	....	....	....	....	....	....	....
Baugh & Sons Co., Baltimore, Md.													
The Ideal Superphosphate	Baltimore	....	....	....	....	**1.45**	....	**17.35**	16.00	....	....	**14.10**	12.80
The Ideal Superphosphate	Clements	....	....	....	....	**1.90**	....	**16.70**	16.00	....	....	**13.65**	12.80
The Ideal Superphosphate	Preston	....	....	....	....	**.65**	....	**17.65**	16.00	....	....	**14.22**	12.80
Animal Base and Potash Compound	Myersville	**1.74**	.90	**2.18**	2.00	**.80**	....	**9.00**	9.00	**3.08**	3.00	**18.50**	17.60
Bone Meal	Silver Hill	....	....	**2.83**	3.00	....	....	***25.90**	*23.00	....	....	**26.86**	25.80
Commercial Crop Compound	Rising Sun	**1.48**	.90	**1.89**	2.00	**1.45**	....	**8.75**	8.00	**10.50**	10.00	**23.18**	22.40
Complete Animal Base Fertilizer	Baltimore	**1.63**	.90	**2.01**	2.00	**1.20**	....	**8.70**	8.00	**5.22**	5.00	**19.36**	18.40
Complete Animal Base Fertilizer	Woodbine	**1.65**	.90	**2.01**	2.00	**1.25**	....	**8.15**	8.00	**5.30**	5.00	**18.99**	18.40
Complete Animal Base Fertilizer	Baltimore	**1.64**	.90	**1.98**	2.00	**1.20**	....	**8.80**	8.00	**5.38**	5.00	**19.44**	18.40
Complete Animal Base Fertilizer	Waldorf	**1.59**	.90	**2.00**	2.00	**1.05**	....	**8.25**	8.00	**5.38**	5.00	**19.06**	18.40
Complete Animal Base Fertilizer	Rising Sun	**1.59**	.90	**2.05**	2.00	**1.45**	....	**8.15**	8.00	**5.08**	5.00	**19.00**	18.40
Complete Animal Base Fertilizer	Laurel	**1.53**	.90	**2.01**	2.00	**1.10**	....	**8.10**	8.00	**5.18**	5.00	**18.83**	18.40
Complete Animal Base Fertilizer	Baltimore	**1.62**	.90	**2.00**	2.00	**1.30**	....	**8.00**	8.00	**5.30**	5.00	**18.84**	18.40
Complete Animal Base Fertilizer	Baltimore	**1.62**	.90	**2.05**	2.00	**1.55**	....	**8.55**	8.00	**5.28**	5.00	**19.49**	18.40
Complete Animal Base Fertilizer	Baltimore	**1.65**	.90	**2.03**	2.00	**1.35**	....	**8.35**	8.00	**5.32**	5.00	**19.26**	18.40
Complete Animal Base Fertilizer	Boonsboro	**1.55**	.90	**1.98**	2.00	**1.55**	....	**8.55**	8.00	**5.24**	5.00	**19.18**	18.40
Complete Animal Base Fertilizer	Hagerstown	**1.62**	.90	**2.01**	2.00	**1.30**	....	**8.20**	8.00	**5.38**	5.00	**19.10**	18.40
Complete Animal Base Fertilizer	Preston	**1.58**	.90	**1.96**	2.00	**1.50**	....	**8.00**	8.00	**5.12**	5.00	**18.57**	18.40
Complete Animal Base Fertilizer	Rockville	**1.67**	.90	**2.06**	2.00	**1.35**	....	**7.95**	8.00	**5.30**	5.00	**19.04**	18.40
Complete Animal Base Fertilizer	Boring	**1.68**	.90	**2.06**	2.00	**1.35**	....	**8.25**	8.00	**5.34**	5.00	**19.31**	18.40
Double Eagle Phosphate	Boonsboro	**1.69**	.90	**2.12**	2.00	**1.65**	....	**12.85**	12.00	**4.40**	4.00	**22.53**	20.80
Excelsior Guano	Woodbine	**.65**	.60	**.99**	1.00	**1.40**	....	**9.50**	9.00	**4.40**	4.00	**15.29**	14.40
Excelsior Guano	Baltimore	**.51**	.60	**1.06**	1.00	**1.10**	....	**9.40**	9.00	**4.40**	4.00	**15.45**	14.40
Excelsior Guano	Baltimore	**.72**	.60	**1.11**	1.00	**.90**	....	**10.20**	9.00	**4.24**	4.00	**16.13**	14.40
Excelsior Guano	Hagerstown	**.63**	.60	**1.04**	1.00	**1.20**	....	**9.00**	9.00	**4.40**	4.00	**15.06**	14.40
Excelsior Guano	Myersville	**.65**	.60	**1.08**	1.00	**.95**	....	**9.65**	9.00	**4.32**	4.00	**15.64**	14.40
Excelsior Guano	Boring	**.79**	.60	**1.13**	1.00	**.75**	....	**9.75**	9.00	**4.36**	4.00	**15.92**	14.40

*** Total Phosphoric Acid.**

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		SUPERPHOSPHATE				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Baugh & Sons Co., Balto., Md. (Cont.)													
Baughgro 4-12-4	Baltimore	**3.98**	....	**4.15**	4.00	**.90**	....	**12.20**	12.00	**4.32**	4.00	**$29.96**	$28.80
Half and Half Mixture, with Potash	Lydia	**.51**	....	**1.60**	1.50	**8.90**	....	**10.60**	10.00	**5.12**	5.00	**20.32**	18.00
Half and Half Mixture, with Potash	Baltimore	**.44**	....	**1.67**	1.50	**7.50**	....	**10.40**	10.00	**5.10**	5.00	**20.21**	18.00
Lime and Phosphate	Baltimore	....	....	....	....	**1.15**	....	**13.55**	13.00	....	....	**11.01**	10.40
Lime and Phosphate	Baltimore	....	....	....	....	**1.25**	....	**13.85**	13.00	....	....	**11.27**	10.40
Lime and Phosphate	Baltimore	....	....	....	....	**1.00**	....	**13.50**	13.00	....	....	**10.95**	10.40
Phosphate and Potash Mixture	Baltimore	....	....	....	....	**.80**	....	**10.90**	10.00	**10.24**	10.00	**17.03**	16.00
Phosphate and Potash Mixture	Baltimore	....	....	....	....	**1.30**	....	**12.90**	12.00	**5.32**	5.00	**14.78**	13.60
Phosphate and Potash Mixture	Preston	....	....	....	....	**.85**	....	**12.45**	12.00	**5.20**	5.00	**14.25**	13.60
Raw Bone Meal	Baltimore	....	....	**4.73**	4.50	....	....	***22.90**	*21.50	....	....	**32.66**	30.90
Raw Bone Meal	Silver Hill	....	....	**4.35**	4.50	....	....	***21.90**	*21.50	....	....	**30.54**	30.90
Wheat Fertilizer for Wheat and Grass	Baltimore	**1.64**	.90	**2.08**	2.00	**1.55**	....	**9.45**	9.00	**3.24**	3.00	**18.70**	17.60
Wheat Fertilizer for Wheat and Grass	Baltimore	**1.50**	.90	**2.03**	2.00	**1.40**	....	**10.20**	9.00	**3.22**	3.00	**19.07**	17.60
Wheat Fertilizer for Wheat and Grass	Lydia	**1.57**	.90	**2.00**	2.00	**1.00**	....	**9.80**	9.00	**3.24**	3.00	**18.58**	17.60
J. Bolgiano Seed Co., Baltimore, Md.													
Square Deal Blood Meal	Baltimore	....	....	**17.29**	16.00	....	....	....	....	....	....	....	....
Square Deal Bone Meal	Baltimore	....	....	**4.86**	3.00	....	....	***21.90**	*22.88	....	....	**32.58**	25.73
Herbert Bryant's Son, Alexandria, Va.													
Belle Haven Ammoniated	Silver Spring	**1.57**	1.21	**1.91**	2.00	**.60**	....	**8.10**	8.00	**6.00**	5.00	**19.01**	18.40
Genuine Fish and Potash	Gaithersburg	**1.49**	1.33	**1.98**	2.00	**.85**	....	**9.25**	9.00	**2.30**	2.00	**17.29**	16.80
High Grade Fish and Potash	Gaithersburg	**1.54**	1.21	**1.88**	2.00	**.50**	....	**8.50**	8.00	**3.38**	3.00	**17.10**	16.80
Pure Animal Bone Meal	Silver Spring	....	....	**4.73**	4.50	....	....	***23.10**	*20.60	....	....	**32.78**	30.36
Steamed Bone Meal	Hyattsville	....	....	**3.00**	3.00	....	....	***24.20**	*22.88	....	....	**26.52**	25.73
Sulphate of Ammonia	Silver Spring	....	....	**25.26**	25.00	....	....	....	....	....	....	....	....

Central Chemical Co., Hagerstown, Maryland.													
MBW. Superphosphate	Baltimore	....	....	....	....	**1.35**	....	**16.65**	16.00	....	....	**13.52**	12.80
Gro-All Dissolved Phosphate	Baltimore	....	....	....	....	**1.05**	....	**16.85**	16.00	....	....	**13.64**	12.80
Gro-All Dissolved Phosphate	Hancock	....	....	....	....	**.50**	....	**17.70**	16.00	....	....	**14.24**	12.80
Gro-All Dissolved Phosphate	Frederick	....	....	....	....	**.85**	....	**15.45**	16.00	....	....	**12.49**	12.80
MBW. Caroline Special	Baltimore	**.49**	.31	**1.04**	1.00	**.65**	....	**10.65**	10.00	**4.36**	4.00	**16.27**	15.20
MBW. Caroline Special	Centreville	**.60**	.31	**1.09**	1.00	**.75**	....	**10.00**	10.00	**4.30**	4.00	**15.91**	15.20
Gro-All Crown Jewel	Baltimore	**.46**	.31	**1.06**	1.00	**.90**	....	**9.60**	9.00	**4.34**	4.00	**15.53**	14.40
Gro-All Crown Jewel	Frederick	**.57**	.31	**.96**	1.00	**.75**	....	**10.15**	9.00	**4.32**	4.00	**15.53**	14.40
Gro-All Crown Jewel	Preston	**.65**	.31	**1.06**	1.00	**.75**	....	**9.15**	9.00	**4.24**	4.00	**15.06**	14.40
Gro-All Excelsior	Smithsburg	**1.50**	.60	**2.01**	2.00	**.50**	....	**8.80**	8.00	**5.38**	5.00	**19.46**	18.40
Gro-All Excelsior	Maugansville	**1.46**	.60	**2.01**	2.00	**.55**	....	**8.55**	8.00	**5.44**	5.00	**19.31**	18.40
Gro-All Excelsior	Frederick	**1.40**	.60	**2.01**	2.00	**.65**	....	**8.85**	8.00	**5.00**	5.00	**19.22**	18.40
Gro-All Excelsior	Preston	**1.33**	.60	**1.91**	2.00	**.90**	....	**8.10**	8.00	**5.32**	5.00	**18.52**	18.40
Gro-All Excelsior	Washington Grove	**1.58**	.60	**2.06**	2.00	**1.30**	....	**8.10**	8.00	**5.40**	5.00	**19.24**	18.40
Gro-All Excelsior	Big Spring	**1.45**	.60	**1.83**	2.00	**.70**	....	**9.20**	8.00	**5.32**	5.00	**19.05**	18.40
Gro-All Fish and Potash Compound	Hancock	**.60**	.31	**1.21**	1.25	**.65**	....	**9.35**	9.00	**4.20**	4.00	**15.78**	15.40
Gro-All Grain and Grass Grower	Frederick	**1.54**	.60	**1.93**	2.00	**.40**	....	**13.10**	12.00	**2.40**	2.00	**20.18**	19.20
Gro-All Potash Special	Baltimore	....	....	....	....	**.95**	....	**12.15**	12.00	**5.34**	5.00	**14.13**	13.60
Gro-All Potash Special	Motters	....	....	....	....	**.50**	....	**12.80**	12.00	**5.00**	5.00	**14.32**	13.60
Gro-All Potash Special	Smithsburg	....	....	....	....	**.50**	....	**13.50**	12.00	**5.30**	5.00	**15.12**	13.60
Gro-All Potash Special	Frederick	....	....	....	....	**.85**	....	**12.55**	12.00	**5.16**	5.00	**14.30**	13.60
Gro-All Potash Special	Hancock	....	....	....	....	**.45**	....	**13.75**	12.00	**5.20**	5.00	**15.23**	13.60
MBW. Special Wheat Mixture	Centreville	**1.15**	.60	**2.01**	2.00	**.70**	....	**12.20**	12.00	**5.36**	5.00	**22.20**	21.60
Gro-All Super-Fish	Frederick	**.90**	.60	**2.01**	2.00	**.90**	....	**12.10**	12.00	**6.36**	6.00	**22.95**	22.40
Gro-All Super-Fish	Big Spring	**.92**	.60	**2.15**	2.00	**1.20**	....	**12.00**	12.00	**6.32**	6.00	**23.44**	22.40
Gro-All Super-Fish	Clear Spring	**1.15**	.60	**2.00**	2.00	**.85**	....	**12.95**	12.00	**6.08**	6.00	**23.35**	22.40
MBW. Wheat and Grass	Baltimore	....	....	....	....	**.70**	....	**10.90**	10.00	**5.36**	5.00	**13.12**	12.00
MBW. Wheat and Grass	Baltimore	....	....	....	....	**1.30**	....	**10.00**	10.00	**5.38**	5.00	**12.50**	12.00
MBW. Wheat and Grass	Centreville	....	....	....	....	**1.20**	....	**10.00**	10.00	**5.68**	5.00	**12.72**	12.00
MBW. Wheat and Grass	Preston	....	....	....	....	**.90**	....	**10.60**	10.00	**5.30**	5.00	**12.86**	12.00
Clark & Owings, Ellicott City, Md.													
Mixture "D"	Ellicott City	**.73**	.50	**2.15**	2.00	**.80**	....	**9.70**	9.00	**2.78**	2.00	**18.70**	16.80

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		SUPERPHOSPHATE				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Devilbiss Bros., New Windsor, Md.													
Acid Phosphate	New Windsor	....	....	....	....	**1.05**	....	**18.75**	16.00	....	....	**$15.16**	$12.80
Butcher House	New Windsor	**.96**	.30	**1.16**	1.00	**2.60**	....	**10.70**	10.00	**5.64**	5.00	**18.10**	16.00
Wheat Grower	New Windsor	**.91**	.30	**1.11**	1.00	**1.80**	....	**11.60**	9.00	**4.30**	3.00	**17.43**	13.60
Dorchester Fertilizer Co., Cambridge, Md.													
Superphosphate	Cambridge	....	....	....	....	**1.10**	....	**18.30**	16.00	....	....	**14.81**	12.80
Dorco Diamond	Cambridge	**1.48**	1.00	**2.06**	2.00	**2.55**	....	**8.55**	8.00	**8.40**	8.00	**22.18**	20.80
Dorco Diamond	Cambridge	**1.37**	1.00	**1.98**	2.00	**2.25**	....	**8.65**	8.00	**8.80**	8.00	**22.22**	20.80
Dorco Favorite	Cambridge	**1.71**	....	**2.05**	2.00	**.35**	....	**8.65**	8.00	**10.60**	10.00	**23.65**	22.40
Dorco Ideal	Cambridge	**1.84**	.50	**2.01**	2.00	**.30**	....	**12.60**	12.00	**5.32**	5.00	**22.43**	21.60
Dorco Ideal	Cambridge	**1.80**	.50	**2.06**	2.00	**.75**	....	**13.25**	12.00	**5.68**	5.00	**23.49**	21.60
Dorco Leader	Cambridge	....	....	....	....	**.15**	....	**13.25**	13.00	**7.36**	7.00	**16.51**	16.00
Dorco Standard	Cambridge	....	....	....	....	**.10**	....	**10.60**	10.00	**9.00**	10.00	**15.70**	16.00
Dorco Winner	Cambridge	....	....	....	....	**.20**	....	**13.60**	12.00	**6.24**	6.00	**15.90**	14.40
Dorco Winner	Cambridge	....	....	....	....	**.05**	....	**12.55**	12.00	**6.00**	6.00	**14.85**	14.40
Old Dorset	Cambridge	**.74**	.75	**1.08**	1.00	**.10**	....	**9.00**	9.00	**4.60**	4.00	**15.22**	14.40
Old Dorset	Cambridge	**.79**	.75	**.99**	1.00	**.45**	....	**9.85**	9.00	**4.56**	4.00	**15.56**	14.40
Our Special	Cambridge	**1.86**	1.50	**2.01**	2.00	**.35**	....	**8.55**	8.00	**5.80**	5.00	**19.57**	18.40
Our Special	Cambridge	**1.78**	1.50	**1.98**	2.00	**.25**	....	**8.95**	8.00	**5.32**	5.00	**19.38**	18.40
Wheat Special	Cambridge	....	....	....	....	**.30**	....	**12.50**	12.00	**5.60**	5.00	**14.53**	13.60
Wheat Special	Cambridge	....	....	....	....	**.40**	....	**12.70**	12.00	**5.32**	5.00	**14.48**	13.60
Eastern Guano Co., Hagerstown, Md.													
2-12-6	Big Spring	**1.79**	.60	**2.05**	2.00	**.70**	....	**12.30**	12.00	**6.38**	6.00	**23.25**	22.40

Edelen Bros., Baltimore, Md.													
Red Tobacco Guano	Baltimore	**2.52**	.60	**2.90**	3.00	**1.00**	....	**9.20**	8.00	**6.00**	6.00	**23.91**	23.20
Wheat and Grain Mixture	Baltimore	**.60**	.31	**1.08**	1.00	**.80**	....	**9.50**	9.00	**4.36**	4.00	**15.53**	14.40
Wheat and Grain Mixture	Baltimore	**.84**	.31	**1.18**	1.00	**.70**	....	**9.70**	9.00	**4.40**	4.00	**16.11**	14.40
Wheat and Grain Mixture	Baltimore	**1.09**	.31	**1.19**	1.00	**.85**	....	**10.25**	9.00	**4.00**	4.00	**16.29**	14.40
Wheat and Grain Mixture	Baltimore	**.57**	.31	**1.01**	1.00	**.75**	....	**9.25**	9.00	**4.38**	4.00	**15.05**	14.40
Wheat and Grain Mixture	Baltimore	**.53**	.31	**.99**	1.00	**.85**	....	**9.55**	9.00	**4.38**	4.00	**15.23**	14.40
Farmers Cooperative Association, Frederick, Md.													
16%	Frederick	....	....	....	....	**1.05**	....	**17.55**	16.00	....	....	**14.20**	12.80
16%	Frederick	....	....	....	....	**.85**	....	**16.15**	16.00	....	....	**13.05**	12.80
0-10-10	Frederick	....	....	....	....	**.45**	....	**11.25**	10.00	**10.00**	10.00	**17.07**	16.00
2-12-6	Frederick	**1.53**	.60	**1.91**	2.00	**.90**	....	**12.00**	12.00	**6.38**	6.00	**22.48**	22.40
0-12-5	Frederick	....	....	....	....	**1.50**	....	**12.60**	12.00	**4.70**	5.00	**14.07**	13.60
0-12-5	Frederick	....	....	....	....	**.45**	....	**13.75**	12.00	**5.00**	5.00	**15.07**	13.60
Farmers Fertilizer & Feed Co., Westminster, Md.													
Superphosphate	Westminster	....	....	....	....	**1.60**	....	**17.10**	16.00	....	....	**13.92**	12.80
Acid and Potash	Westminster	....	....	....	....	**.70**	....	**12.70**	12.00	**5.24**	5.00	**14.46**	13.60
Farmers Favorite	Westminster	**.82**	.60	**1.16**	1.00	**.65**	....	**10.85**	10.00	**5.32**	5.00	**17.68**	16.00
Potato Grower	Union Bridge	**1.70**	1.20	**2.01**	2.00	**.65**	....	**8.65**	8.00	**5.32**	5.00	**19.32**	18.40
Potato Grower	Westminster	**1.74**	1.20	**2.08**	2.00	**.65**	....	**8.95**	8.00	**5.32**	5.00	**19.84**	18.40
Farmers Potash Special	Westminster	**1.71**	1.20	**1.98**	2.00	**.40**	....	**8.48**	8.00	**10.40**	10.00	**23.08**	22.40
XXX Fertilizer	Westminster	**.91**	.80	**1.18**	1.00	**.85**	....	**9.65**	9.00	**4.40**	4.00	**16.09**	14.40
XX Fertilizer	Westminster	**.75**	....	**1.09**	1.00	**.90**	....	**9.60**	9.00	**3.40**	3.00	**14.90**	13.60
Farmers & Planters Co., Salisbury, Md.													
Corn Grower	Salisbury	**.92**	.73	**1.19**	1.00	**.50**	....	**8.90**	9.00	**5.50**	4.00	**16.36**	14.40
Rock and Kainit	Salisbury	....	....	....	....	**.40**	....	**6.64**	7.00	**6.54**	5.00	**10.60**	9.60
Special Fish Mixture	Salisbury	**1.84**	1.52	**1.98**	2.00	**.95**	....	**8.85**	8.00	**5.74**	5.00	**19.73**	18.40
Friedman Tobacco Products Corp., "Double Duty" Tobacco Stem and and Dust Fertilizer	**York, Pa.** Parkton	**1.69**	....	**2.97**	2.43	**.05**	....	**1.05**	2.00	**6.80**	4.50	**18.17**	14.92

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		SUPERPHOSPHATE				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Griffith & Boyd Co., Baltimore, Md.													
Blood	Baltimore	....	....	**12.08**	12.00	....	....	....	....	....	....	....	....
Fish, Blood and Potash	Baltimore	**1.38**	....	**1.77**	1.75	**.45**	....	**10.95**	10.25	**2.34**	2.00	**$17.78**	$16.80
High Grade Economizer	Baltimore	**1.86**	.48	**2.03**	2.00	**.45**	....	**12.65**	12.00	**5.60**	5.00	**22.79**	21.60
Nitrate of Soda	Baltimore	....	....	**18.36**	18.00	....	....	....	....	....	....	....	....
Pure Fine Ground Bone Meal	Baltimore	....	....	**5.85**	4.50	....	....	***18.60**	*20.00	....	....	**34.56**	30.00
Royal Potash Guano	Baltimore	**.67**	.24	**1.06**	1.00	**.45**	....	**9.35**	9.00	**4.28**	4.00	**15.21**	14.40
Royal Potash Guano	Baltimore	**.75**	.24	**1.06**	1.00	**.50**	....	**9.40**	9.00	**4.32**	4.00	**15.30**	14.40
Royal Potash Guano	Providence	**.61**	.24	**1.09**	1.00	**.55**	....	**9.25**	9.00	**4.38**	4.00	**15.34**	14.40
Special Grain Grower	Baltimore	....	....	....	....	**.25**	....	**13.05**	12.00	**4.00**	5.00	**13.68**	13.60
Special Guano	Baltimore	**1.60**	.48	**1.98**	2.00	**.45**	....	**8.25**	8.00	**5.28**	5.00	**18.81**	18.40
Special Guano	Baltimore	**1.60**	.48	**1.98**	2.00	**.55**	....	**8.45**	8.00	**5.24**	5.00	**18.95**	18.40
Special Guano	Port Deposit	**1.42**	.48	**2.05**	2.00	**.55**	....	**8.55**	8.00	**5.20**	5.00	**19.28**	18.40
X X Potash Manure	Baltimore	....	....	....	....	**.25**	....	**10.05**	10.00	**3.10**	5.00	**10.56**	12.00
X X Potash Manure	Baltimore	....	....	....	....	**.25**	....	**10.55**	10.00	**5.62**	5.00	**12.98**	12.00
X X Potash Manure	Baltimore	....	....	....	....	**.40**	....	**10.60**	10.00	**5.30**	5.00	**12.78**	12.00
Griffith & Turner Co., Balto., Md.													
Ammoniated Alkaline Plant Food	Baltimore	**.65**	.24	**.99**	1.00	**.45**	....	**5.95**	6.00	**2.00**	1.50	**10.39**	10.00
Ammoniated Butchers Bone	Baltimore	**.85**	.31	**1.26**	1.25	**.45**	....	**9.95**	9.00	**2.96**	1.50	**15.44**	13.40
Animal Bone Phosphate	Baltimore	**2.07**	.60	**2.53**	2.50	**.90**	....	**11.10**	10.00	**2.82**	1.50	**21.40**	19.20
Gritco XL Plant Food	Baltimore	**5.13**	1.21	**5.20**	5.00	**.25**	....	**8.75**	8.00	**4.56**	3.50	**32.29**	29.20
Soft Ground Bone	Baltimore	....	....	**2.99**	3.00	....	....	***10.50**	*11.00	....	....	**18.26**	18.60
Special Truck Mixture	Baltimore	**2.71**	.97	**3.77**	4.00	**.45**	....	**9.05**	8.00	**6.20**	6.00	**27.35**	27.20
Tomato Grower	Baltimore	**1.35**	.49	**1.98**	2.00	**.90**	....	**8.50**	8.00	**5.40**	5.00	**19.18**	18.40

Hampstead Fertilizer Co., Hampstead, Md.													
Acid Phosphate	Hampstead	....	....	....	....	**1.70**	....	**16.00**	16.00	....	....	**13.06**	12.80
1-8-4	Hampstead	**.81**	.49	**1.19**	1.00	**1.05**	....	**8.05**	8.00	**4.20**	4.00	**14.72**	13.60
2-8-5	Hampstead	**1.55**	1.00	**1.98**	2.00	**1.25**	....	**8.35**	8.00	**5.10**	5.00	**18.87**	18.40
Horsey, Roe & Co., Greensboro, Md.													
Crop Grower	Greensboro	**.72**	....	**.99**	1.00	**1.15**	....	**9.95**	9.00	**5.04**	4.00	**16.12**	14.40
2-8-5	Greensboro	**2.00**	1.00	**2.20**	2.00	**1.05**	....	**8.75**	8.00	**6.30**	5.00	**21.00**	18.40
2-8-10	Greensboro	**1.79**	1.00	**2.05**	2.00	**.75**	....	**9.45**	8.00	**10.90**	10.00	**24.59**	22.40
0-12-5	Greensboro	....	....	....	....	**.85**	....	**13.35**	12.00	**5.16**	5.00	**14.94**	13.60
Hubbard Fertilizer Co., Balto., Md.													
Superphosphate	Baltimore	....	....	....	....	**1.20**	....	**17.10**	16.00	....	....	**13.86**	12.80
Superphosphate	Baltimore	....	....	....	....	**1.05**	....	**16.65**	16.00	....	....	**13.48**	12.80
Alkaline	Baltimore	....	....	....	....	**.85**	....	**12.85**	12.00	**5.04**	5.00	**14.44**	13.60
Alkaline	Baltimore	....	....	....	....	**.50**	....	**12.40**	12.00	**5.30**	5.00	**14.24**	13.60
Animal Tankage	Baltimore	....	....	**8.95**	9.00	....	....	***7.30**	*4.00	....	....	**40.18**	38.40
Jersey Trucker	Baltimore	**1.55**	1.00	**1.98**	2.00	**.45**	....	**8.45**	8.00	**10.80**	10.00	**23.39**	22.40
1-9-4 Fertilizer	Baltimore	**.55**	....	**1.06**	1.00	**.50**	....	**10.00**	9.00	**4.40**	4.00	**15.84**	14.40
1-9-4 Fertilizer	Rowlandsville	**.68**	....	**1.09**	1.00	**.65**	....	**9.05**	9.00	**4.40**	4.00	**15.22**	14.40
Money Maker Fertilizer	Rowlandsville	**1.45**	1.00	**1.98**	2.00	**1.00**	....	**8.10**	8.00	**5.56**	5.00	**19.00**	18.40
Money Maker Fertilizer	Baltimore	**1.43**	1.00	**1.98**	2.00	**.55**	....	**8.25**	8.00	**5.34**	5.00	**18.87**	18.40
Muriate of Potash	Baltimore	....	....	....	....	....	....	....	....	**46.50**	50.00	....	....
M. P. Hubbard & Co., Inc., Baltimore, Md.													
Celebrated Alkaline Compound	Providence	....	....	....	....	**.45**	....	**12.05**	12.00	**5.40**	5.00	**14.03**	13.60
Huston, Culver & Co., Seaford, Del.													
Crop Grower	....	**.64**	.31	**1.19**	2.00	**.80**	....	**10.20**	8.00	**5.90**	5.00	**17.76**	18.40
Double Potash Mixture	....	....	....	....	....	**.55**	....	**12.95**	12.00	**5.38**	5.00	**14.74**	13.60
Huston Special	....	**.69**	.24	**1.08**	1.00	**.40**	....	**11.10**	9.00	**5.30**	4.00	**17.50**	14.40
J. Manns & Co., Baltimore, Md.													
Nitrate of Soda	Baltimore	....	....	**18.58**	16.00	....	....	....	....	....	....	....	....

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		SUPERPHOSPHATE				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Maryland Milling & Supply Co., Sykesville, Md.													
Superphosphate H. G.	Sykesville	....	....	....	....	.65	....	17.25	16.00	....	....	$13.90	$12.80
Newman's Favorite	Sykesville	.34	....	.89	2.00	1.85	....	9.15	8.00	6.00	5.00	15.96	18.40
Phosphate and Potash	Sykesville	....	....	....	....	.70	....	12.50	12.00	5.24	5.00	14.30	13.60
Massey & Wilmer, Chestertown, Md.													
Superphosphate	Chestertown	....	....	....	....	.35	....	19.35	16.00	....	....	15.53	12.80
Crop Phosphate	Chestertown	.88	....	1.19	1.00	1.40	....	8.90	9.00	4.80	4.00	15.93	14.40
0-12-5	Chestertown	....	....	....	....	1.30	....	12.50	12.00	5.66	5.00	14.73	13.60
0-12-5	Chestertown	....	....	....	....	1.05	....	12.00	12.00	5.36	5.00	14.05	13.60
0-10-5	Chestertown	....	....	....	....	1.50	....	10.00	10.00	5.50	5.00	12.63	12.00
Medford Fert. Works, Medford, Md.													
1-8-5 Fertilizer	Medford	.51	.25	.85	1.00	.40	....	10.20	8.00	5.00	5.00	15.62	14.40
1-10-5 Fertilizer	Medford	.64	.25	1.02	1.00	.50	....	11.00	10.00	5.88	5.00	17.66	16.00
2-8-5 Fertilizer	Medford	1.60	.25	2.01	2.00	.50	....	8.20	8.00	5.66	5.00	19.21	18.40
0-12-5 Fertilizer	Medford	....	....	....	....	.50	....	10.90	12.00	5.40	5.00	13.12	13.60
Frederick Mehring Fert. Works, Inc., Keymar, Md.													
Superphosphate	Middleburg	....	....	....	....	.80	....	20.00	20.00	....	....	16.12	16.00
Acid Phosphate	Bruceville	....	....	....	....	.80	....	16.90	16.00	....	....	13.64	12.80
Big Four	Middleburg	.88	.62	1.19	1.00	1.50	....	9.30	9.00	4.36	4.00	15.92	14.40
Big Four	Bruceville	.93	.62	1.24	1.00	1.65	....	9.25	9.00	4.36	4.00	16.10	14.40
Indian Chief	Bruceville	1.55	1.30	1.81	2.00	.70	....	12.00	12.00	6.74	6.00	22.34	22.40
Mamouth Truck Grower	Bruceville	1.69	....	2.00	2.00	1.15	....	8.25	8.00	6.00	5.00	19.57	18.40
Potash Mixture	Bruceville	....	....	....	....	1.05	....	12.65	12.00	5.38	5.00	14.58	13.60

Miller Fertilizer Co., Baltimore, Md.														
Superphosphate	Centreville	....	....	....	....	**.70**	....	**16.80**	16.00	....	....	**13.55**	12.80
Superphosphate	Elkton	....	....	....	....	**1.25**	....	**17.35**	16.00	....	....	**14.07**	12.80
Grass and Grain	Rockville	**1.63**	....	**2.01**	2.00	**1.60**	....	**8.90**	9.00	**3.38**	3.00	**18.10**	17.60
Harvest Queen	Centreville	**.77**	....	**1.16**	1.00	**1.15**	....	**8.55**	9.00	**5.04**	4.00	**15.68**	14.40
Harvest Queen	Elkton	**.60**	....	**1.06**	1.00	**.75**	....	**9.15**	9.00	**4.10**	4.00	**14.95**	14.40
Harvest Queen	Walkersville	**.86**	....	**1.13**	1.00	**.55**	....	**9.45**	9.00	**4.28**	4.00	**15.58**	14.40
Harvest Queen	Rockville	**.62**	....	**1.06**	1.00	**1.20**	....	**9.10**	9.00	**4.38**	4.00	**15.20**	14.40
1-12-5	Williamsport	**.63**	....	**1.14**	1.00	**.80**	....	**12.20**	12.00	**5.20**	5.00	**18.60**	17.60
1-12-5	Walkersville	**.61**	....	**.99**	1.00	**.65**	....	**12.55**	12.00	**5.18**	5.00	**18.24**	17.60
2-8-5	Baltimore	**1.58**	1.00	**1.84**	2.00	**.65**	....	**8.00**	8.00	**5.34**	5.00	**18.13**	18.40
2-8-5	Walkersville	**1.40**	1.00	**1.91**	2.00	**.55**	....	**8.45**	8.00	**5.28**	5.00	**18.70**	18.40
2-12-4	Laurel	**1.40**	1.00	**1.86**	2.00	**.85**	....	**12.15**	12.00	**4.04**	4.00	**20.52**	20.80
2-12-4	Jessup	....	....	**2.10**	2.00	**.78**	....	**12.12**	12.00	**4.32**	4.00	**21.68**	20.80
0-12-5	Elkton	....	....	....	....	**.85**	....	**12.85**	12.00	**5.36**	5.00	**14.70**	13.60
0-12-5	Williamsport	....	....	....	....	**.85**	....	**13.15**	12.00	**4.64**	5.00	**14.36**	13.60
Wheat and Grass Grower	Walkersville	**1.50**	....	**2.01**	2.00	**1.05**	....	**12.05**	12.00	**2.40**	2.00	**19.76**	19.20
Wheat and Grass Grower	Williamsport	**1.45**	....	**2.00**	2.00	**.95**	....	**12.05**	12.00	**2.24**	2.00	**19.57**	19.20
Scott's Sure Growth Superphosphate	Elkton	**1.42**	1.00	**1.98**	2.00	**.65**	....	**9.15**	9.00	**3.34**	3.00	**18.01**	17.60
Mor-Life Plant Food Co., Balto., Md.														
Mor-Life Plant Food	Baltimore	**.62**	....	**4.20**	4.00	....	....	***5.50**	*5.00	**2.28**	2.00	**21.92**	20.60
Natural Guano Co., Aurora, Ill.														
"Sheep's Head" Pulv. Sheep Manure	Bethesda	....	....	**2.61**	2.73	....	....	***1.20**	*1.00	**2.92**	2.00	**13.50**	13.12
G. Ober & Sons Co., Baltimore, Md.														
Superphosphate H. G.	Baltimore	....	....	....	....	**.45**	....	**17.25**	16.00	....	....	**13.87**	12.80
Superphosphate H. G.	Baltimore	....	....	....	....	**.30**	....	**17.90**	16.00	....	....	**14.37**	12.80
Superphosphate H. G.	Baltimore	....	....	....	....	**1.65**	....	**18.35**	16.00	....	....	**14.93**	12.80
Bone Mixture	Baltimore	**.51**	1.60	**1.79**	2.00	....	....	***9.80**	*9.00	**5.56**	5.00	**17.49**	17.40
Refined Ground Bone	Clements	....	....	**4.52**	4.50	....	....	***21.80**	*21.00	....	....	**31.16**	30.60
Refined Ground Bone	Baltimore	....	....	**3.62**	3.00	....	....	***23.80**	*22.00	....	....	**28.76**	25.20
Ground Tankage	Baltimore	....	....	**9.18**	9.00	....	....	....	....	....	....	....	....
Kainit	Baltimore	....	....	....	....	....	....	....	....	**14.00**	12.40	....	....
Lime Phosphate	Baltimore	....	....	....	....	**1.00**	....	**14.50**	13.00	....	....	**11.75**	10.40
Lime Phosphate	Baltimore	....	....	....	....	**.85**	....	**13.00**	13.00	....	....	**10.53**	10.40

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		SUPERPHOSPHATE				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
G. Ober & Sons Co., Baltimore, Maryland. (Continued)													
Muriate of Potash	Baltimore	....	....	....	....	....	....	....	....	**51.60**	50.00	$	$ ....
Muriate of Potash	Baltimore	....	....	....	....	....	....	....	....	**52.27**	50.00	....	....
Special Plant Food	Baltimore	**1.60**	1.60	**1.98**	2.00	**1.70**	....	**9.20**	9.00	**5.32**	5.00	**19.80**	19.20
Special Plant Food	Baltimore	**1.69**	1.60	**2.03**	2.00	**.90**	....	**9.50**	9.00	**5.10**	5.00	**19.94**	19.20
Special Plant Food	Clements	**1.62**	1.60	**2.01**	2.00	**1.95**	....	**9.65**	9.00	**6.30**	5.00	**21.09**	19.20
Special Plant Food	Baltimore	**1.66**	1.60	**2.00**	2.00	**2.00**	....	**8.60**	9.00	**5.20**	5.00	**19.34**	19.20
Special Plant Food	Baltimore	**1.57**	1.60	**1.98**	2.00	**2.10**	....	**8.80**	9.00	**5.20**	5.00	**19.44**	19.20
Stag Guano	Baltimore	**.73**	.80	**1.11**	1.00	**2.50**	....	**8.30**	9.00	**5.20**	5.00	**19.10**	19.20
Stag Guano	Baltimore	**.69**	.80	**1.08**	1.00	**2.25**	....	**9.15**	9.00	**4.32**	4.00	**15.56**	14.40
Stag Guano	Baltimore	**.77**	.80	**1.08**	1.00	**2.25**	....	**8.85**	9.00	**4.16**	4.00	**15.07**	14.40
Starkey Truck Compound	Baltimore	**3.41**	3.20	**3.84**	4.00	**1.55**	....	**8.75**	8.00	**5.10**	5.00	**26.67**	26.40
Starkey Truck Compound	Baltimore	**3.26**	3.20	**3.75**	4.00	**1.45**	....	**8.55**	8.00	**5.00**	5.00	**26.06**	26.40
Sulphate of Ammonia	Baltimore	....	....	**25.34**	25.00	....	....	....	....	....	....	....	....
Superior Potato and Vegetable Grower	Baltimore	**1.52**	1.60	**1.86**	2.00	**1.60**	....	**8.00**	8.00	**10.28**	10.00	**22.30**	22.40
Super Wheat and Grain Grower	Baltimore	**2.46**	2.40	**2.99**	3.00	**3.10**	....	**11.50**	12.00	**3.26**	3.00	**24.24**	24.00
Swan-E Guano	Baltimore	**1.64**	1.60	**1.96**	2.00	**1.60**	....	**9.00**	9.00	**5.14**	3.00	**19.39**	17.60
Swan-E Guano	Baltimore	**1.52**	1.60	**2.00**	2.00	**.80**	....	**9.20**	9.00	**3.52**	3.00	**18.30**	17.60
Swan-E Guano	Baltimore	**1.59**	1.60	**2.00**	2.00	**2.20**	....	**8.70**	9.00	**4.44**	3.00	**18.84**	17.60
Twelve and Five Potash Compound	Baltimore	....	....	....	....	**.70**	....	**12.50**	12.00	**5.30**	5.00	**14.35**	13.60
Twelve and Five Potash Compound	Baltimore	....	....	....	....	**.70**	....	**12.80**	12.00	**5.00**	5.00	**14.35**	13.60
Twelve and Five Potash Compound	Baltimore	....	....	....	....	**1.60**	....	**12.50**	12.00	**5.40**	5.00	**14.56**	13.60
Twelve and Five Potash Compound	Baltimore	....	....	....	....	**1.65**	....	**12.85**	12.00	**5.30**	5.00	**14.77**	13.60
		....	....	....	....	**1.65**	....	**12.45**	12.00	**5.14**	5.00	**14.32**	13.60

Pacific Manure & Fertilizer Co., San Francisco, Cal.													
Sheep Manure	Annapolis	....	....	**1.59**	1.80	....	....	***.80**	*.75	**3.00**	3.00	**9.24**	10.05
Patuxent Guano Co., Balto., Md.													
Potash Mixture	Baltimore	....	....	....	....	**.35**	....	**12.85**	12.00	**5.36**	5.00	**14.62**	13.60
Potash Mixture	Baltimore	....	....	....	....	**1.25**	....	**12.95**	12.00	**4.48**	5.00	**14.13**	13.60
Tip Top Fertilizer	Baltimore	**1.52**	1.00	**2.00**	2.00	**.80**	....	**8.40**	8.00	**10.08**	10.00	**22.90**	22.40
Peerless Fertilizer Co., Chestertown, Md.													
Acid Phosphate	Chestertown	....	....	....	....	**1.10**	....	**16.10**	16.00	....	....	**13.05**	12.80
Bone Special	Chestertown	....	....	**.56**	.50	**1.40**	....	**9.60**	10.00	**4.40**	4.00	**13.65**	13.20
Imperial Compound	Chestertown	**.84**	.40	**1.11**	1.00	**1.15**	....	**9.55**	9.00	**4.40**	4.00	**15.77**	14.40
Imperial Compound	Chestertown	**.32**	.40	**1.02**	1.00	**1.00**	....	**10.10**	9.00	**4.36**	4.00	**15.80**	14.40
0-12-5	Chestertown	....	....	....	....	**.85**	....	**12.55**	12.00	**6.10**	5.00	**15.05**	13.60
0-12-5	Chestertown	....	....	....	....	**1.10**	....	**14.90**	12.00	**5.30**	5.00	**16.33**	13.60
Piedmont-Mt. Airy Guano Co., Inc., Baltimore, Md.													
Harvest Queen	Mt. Airy	**.56**	....	**.99**	1.00	**1.35**	....	**8.15**	8.00	**4.20**	4.00	**14.04**	13.60
1-9-3 Fertilizer	Mt. Airy	**.68**	....	**1.16**	1.00	**.95**	....	**9.45**	9.00	**3.00**	3.00	**14.74**	13.60
Peerless Phosphate	Mt. Airy	**.70**	....	**1.16**	1.00	**1.85**	....	**7.35**	8.00	**3.04**	3.00	**13.23**	12.80
Perfection Guano	Baltimore	**1.52**	1.00	**1.88**	2.00	**.60**	....	**8.50**	8.00	**5.40**	5.00	**18.73**	18.40
Perfection Guano	Mt. Airy	**1.60**	1.00	**1.98**	2.00	**1.30**	....	**8.10**	8.00	**5.20**	5.00	**18.76**	18.40
Wheat Compound	Denton	....	....	....	....	**.60**	....	**12.50**	12.00	**5.40**	5.00	**14.41**	13.60
Plant Products Co., Baltimore, Md.													
Plantabbs	Baltimore	**13.28**	....	**13.35**	13.35	....	....	***19.40**	*15.00	**25.28**	20.00	**85.26**	78.40
Pulverized Manure Co., Chicago, Ill.													
Wizard Brand Cattle Manure	Baltimore	....	....	**2.70**	2.10	....	....	***2.50**	*1.00	**1.40**	1.00	**13.42**	9.80
Wizard Brand Pulv. Sheep Manure	Silver Spring	....	....	**2.50**	2.43	....	....	***1.50**	*1.25	**3.00**	2.00	**13.30**	12.07
Ramsburg Fertilizer Co., Frederick, Md.													
Superphosphate	Frederick	....	....	....	....	**.70**	....	**17.50**	16.00	....	....	**14.11**	12.80
Ammoniated Bone Phosphate	Frederick	**.32**	.85	**.92**	1.00	**.50**	....	**11.80**	10.00	**4.20**	4.00	**16.56**	15.20
Ammoniated Bone Phosphate	Myersville	**.26**	.85	**.99**	1.00	**.80**	....	**12.30**	10.00	**4.36**	4.00	**17.41**	15.20
Excelsior Half and Half	Frederick	**.42**	.85	**1.02**	1.00	**1.05**	....	**11.45**	10.00	**2.86**	2.00	**15.69**	13.60

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		SUPERPHOSPHATE				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Ramsburg Fert. Co., Frederick, Maryland. (Continued)													
Excelsior Plant Food	Frederick	**1.71**	....	**2.27**	2.00	**.50**	....	**11.40**	10.00	**3.94**	4.00	$12.43	$19.20
Excelsior Plant Food	Jefferson	**2.01**	.85	**2.73**	2.00	**.50**	....	**10.90**	10.00	**3.72**	4.00	**22.70**	19.20
Old Virginia Compound	Frederick	**.50**	.85	**1.01**	1.00	**.60**	....	**11.90**	10.00	**6.34**	5.00	**18.72**	16.00
Special Rock and Potash	Frederick	....	....	....	....	**.95**	....	**12.65**	12.00	**3.84**	5.00	**13.33**	13.60
Special Wheat Fertilizer	Frederick	**1.50**	1.83	**2.01**	2.00	**.60**	....	**11.70**	8.00	**3.94**	6.00	**20.64**	19.20
Williams Wheat and Grass Fertilizer	Frederick	**.56**	.85	**1.16**	1.00	**1.25**	....	**12.25**	10.00	**2.90**	2.00	**16.95**	13.60
Reindollar Co., Taneytown, Md.													
Superphosphate	Taneytown	....	....	....	....	**.85**	....	**17.55**	16.00	....	....	**14.17**	12.80
Grain Grower	Taneytown	**1.23**	....	**2.05**	2.00	**1.80**	....	**11.10**	10.00	**5.34**	5.00	**21.62**	20.00
Rock and Potash	Taneytown	....	....	....	....	**1.05**	....	**13.95**	12.00	**6.00**	6.00	**16.12**	14.40
W. E. Robinson & Co., Bel Air, Md.													
Special Mixture	Fallston	**1.50**	1.00	**1.98**	2.00	**1.30**	....	**8.90**	8.00	**5.40**	5.00	**19.56**	18.40
F. S. Royster Guano Co., Balto., Md.													
Bully Guano	Baltimore	**1.62**	1.33	**2.17**	2.00	**.75**	....	**8.85**	8.00	**5.28**	5.00	**20.09**	18.40
Bully Guano	Port Deposit	**1.45**	1.33	**1.84**	2.00	**1.25**	....	**8.25**	8.00	**5.06**	5.00	**18.20**	18.40
Bully Guano	Rockville	**1.65**	1.33	**2.08**	2.00	**.70**	....	**8.40**	8.00	**5.04**	5.00	**19.18**	18.40
Gem Guano	Baltimore	**1.18**	1.33	**1.98**	2.00	**1.25**	....	**12.75**	12.00	**4.24**	4.00	**21.70**	20.80
Phosphate and Potash	Baltimore	....	....	....	....	**.70**	....	**12.70**	12.00	**5.20**	5.00	**14.43**	13.60
Phosphate and Potash	Baltimore	....	....	....	....	**1.30**	....	**12.30**	12.00	**5.18**	5.00	**14.18**	13.60
Rationa Guano	Baltimore	**.43**	....	**.99**	1.00	**.80**	....	**9.90**	9.00	**4.90**	4.00	**15.92**	14.40
Raw Bone Meal	Rockville	....	....	**4.85**	4.50	....	....	***21.30**	***21.50**	....	....	**32.18**	30.90

R. H. Slingluff Fertilizer Co., Baltimore, Md.													
Champion Fertilizer	Baltimore	**1.50**	.60	**1.98**	2.00	**.85**	....	**8.45**	8.00	**5.56**	5.00	**19.26**	18.40
Champion Fertilizer	Baltimore	**1.67**	.60	**2.15**	2.00	**.80**	....	**8.40**	8.00	**5.30**	5.00	**19.68**	18.40
Champion Fertilizer	Baltimore	**1.52**	.60	**2.00**	2.00	**.70**	....	**8.10**	8.00	**5.48**	5.00	**18.97**	18.40
General Crop Grower	Baltimore	**1.73**	.60	**2.17**	2.00	**.70**	....	**8.40**	8.00	**3.50**	3.00	**18.31**	16.80
General Crop Grower	Baltimore	**1.40**	.60	**1.91**	2.00	**.55**	....	**9.35**	8.00	**4.00**	3.00	**18.40**	16.80
Harvest Queen	Baltimore	**.58**	.31	**1.02**	1.00	**.85**	....	**9.95**	9.00	**4.38**	4.00	**15.67**	14.40
Standard Phosphate	Baltimore	**2.77**	.60	**3.20**	3.00	**.65**	....	**8.45**	8.00	**4.44**	4.00	**23.21**	21.60
Sidney R. Solomon, Raspeburg, Md.													
Bone Meal	Baltimore	....	....	**3.12**	3.00	....	....	*25.20	*23.00	....	....	**27.60**	25.80
5-8-5	Raspeburg	**4.71**	3.65	**5.19**	5.00	**1.30**	....	**8.5**[illegible]	8.00	**5.20**	5.00	**31.92**	30.40
4-8-4	Baltimore	**3.33**	2.42	**3.84**	4.00	**1.30**	....	**8.**[illegible]	8.00	**4.24**	4.00	**26.07**	25.60
2-8-5	Baltimore	**1.57**	.90	**2.13**	2.00	**1.60**	....	**8.80**	8.00	**5.36**	5.00	**20.09**	18.40
Standard Wholesale Phosphate & Acid Works, Inc., Balto., Md.													
Standard U. S. Superphosphate	Baltimore	....	....	....	....	**.45**	....	**20.85**	20.00	....	....	**16.75**	16.00
Standard U. S. Superphosphate	Hancock	....	....	....	....	**.25**	....	**16.65**	16.00	....	....	**13.36**	12.80
Standard U. S. Farmers Delight	Baltimore	**2.45**	1.48	**2.93**	3.00	**.80**	....	**12.50**	12.00	**6.20**	6.00	**26.80**	26.40
Standard U. S. General Use Guano	Baltimore	**1.62**	1.00	**2.01**	2.00	**1.05**	....	**12.25**	12.00	**4.92**	4.00	**21.94**	20.80
Standard U. S. General Use Guano	Baltimore	**1.68**	1.00	**2.12**	2.00	**.90**	....	**12.60**	12.00	**4.40**	4.00	**22.22**	20.80
Standard U. S. General Use Guano	Baltimore	**1.48**	1.00	**2.03**	2.00	**.85**	....	**12.45**	12.00	**4.40**	4.00	**21.73**	20.80
Standard U. S. H. G. Phos. and Pot.	Clear Spring	....	....	....	....	**.55**	....	**13.65**	12.00	**5.10**	5.00	**15.08**	13.60
Standard U. S. H. G. Phos. and Pot.	Hancock	....	....	....	....	**.40**	....	**12.50**	12.00	**5.30**	5.00	**14.30**	13.60
Standard U. S. Rainbow Brand	Baltimore	**1.49**	1.00	**2.05**	2.00	**1.50**	....	**12.30**	12.00	**3.16**	2.00	**20.80**	19.20
Standard U. S. Service Mixture	Baltimore	**1.79**	1.00	**2.15**	2.00	**1.20**	....	**12.30**	12.00	**6.54**	6.00	**23.85**	22.40
Standard U. S. Service Mixture	Baltimore	**1.81**	1.00	**2.13**	2.00	**1.10**	....	**12.20**	12.00	**6.72**	6.00	**23.83**	22.40
Standard U. S. Service Mixture	Baltimore	**1.83**	1.00	**2.17**	2.00	**1.00**	....	**12.10**	12.00	**6.56**	6.00	**23.76**	22.40
Standard U. S. Service Mixture	Clear Spring	**1.67**	1.00	**2.05**	2.00	**.75**	....	**12.00**	12.00	**6.24**	6.00	**22.90**	22.40
Sulphate of Ammonia	Cordova	....	....	**25.34**	25.00	....	....	....	....	....	....	....	....
Stumpp & Walter Co., Balto., Md.													
Sawco Bone Fertilizer	Baltimore	....	....	**4.69**	3.00	....	....	*20.50	*24.00	....	....	**31.06**	26.40
Sawco Emerald Grass Fertilizer	Baltimore	**3.41**	2.92	**3.65**	3.65	**.20**	....	**5.00**	5.00	**4.28**	3.00	**22.05**	21.00
Sawco Tree and Plant Food	Baltimore	....	....	**18.24**	18.24	**.05**	....	**31.45**	30.00	**14.96**	15.00	**110.10**	108.96
Sawco General Garden Fertilizer	Baltimore	**3.46**	2.59	**3.72**	4.00	**.50**	....	**7.45**	8.00	**3.00**	3.00	**23.32**	24.80

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		SUPERPHOSPHATE				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Stumpp & Walter Co., Baltimore, Maryland. (Continued)													
Sawco Nitrate of Soda	Baltimore	....	....	**17.90**	15.00	....	....	....	....	....	....	$	$ ....
Sawco Pulverized Sheep Manure	Baltimore	....	....	**4.54**	2.43	....	....	***2.20**	*1.00	**2.00**	2.00	**21.08**	11.92
Sawco Shredded Cattle Manure	Baltimore	....	....	**2.22**	2.10	....	....	***1.20**	*1.00	**1.36**	1.00	**10.69**	9.80
Swift & Co., Baltimore, Md.													
Red Steer 4-12-4	Baltimore	**3.39**	2.60	**3.82**	4.00	**.95**	....	**12.15**	12.00	**4.28**	4.00	**28.56**	28.80
Red Steer 4-16-10	Baltimore	**3.81**	2.60	**3.98**	4.00	**.80**	....	**16.00**	16.00	**10.40**	10.00	**37.16**	36.80
Red Steer 1-9-4	Baltimore	**.94**	.60	**1.09**	1.00	**.40**	....	**9.80**	9.00	**4.00**	4.00	**15.46**	14.40
Red Steer 2-8-5	Baltimore	**1.71**	1.21	**1.98**	2.00	**1.15**	....	**8.05**	8.00	**5.28**	5.00	**18.75**	18.40
Red Steer 2-8-5	Waldorf	**1.76**	1.21	**2.00**	2.00	**.70**	....	**8.50**	8.00	**5.00**	5.00	**18.91**	18.40
Red Steer 2-8-5	Ridgely	**1.96**	1.21	**2.10**	2.00	**.65**	....	**8.45**	8.00	**5.00**	5.00	**19.26**	18.40
Red Steer 2-8-5	Baltimore	**1.99**	1.21	**2.13**	2.00	**.60**	....	**8.60**	8.00	**4.88**	5.00	**19.39**	18.40
Red Steer 2-8-10	Baltimore	**1.71**	1.21	**1.91**	2.00	**.90**	....	**8.00**	8.00	**10.60**	10.00	**22.66**	22.40
Red Steer 2-12-4	Baltimore	**1.94**	1.21	**2.03**	2.00	**.60**	....	**12.30**	12.00	**4.28**	4.00	**21.47**	20.80
Red Steer 2-12-2	Waldorf	**1.96**	1.21	**2.03**	2.00	**.85**	....	**12.95**	12.00	**2.20**	2.00	**20.37**	19.20
Red Steer 0-10-10	Baltimore	....	....	....	....	**.50**	....	**10.80**	10.00	**10.08**	10.00	**16.78**	16.00
Red Steer 0-12-5	Baltimore	....	....	....	....	**.60**	....	**12.30**	12.00	**5.30**	5.00	**14.17**	13.60
Red Steer 0-12-5	Baltimore	....	....	....	....	**.60**	....	**12.50**	12.00	**5.54**	5.00	**14.52**	13.60
Red Steer 0-12-5	Ridgely	....	....	....	....	**.75**	....	**12.05**	12.00	**5.20**	5.00	**13.91**	13.60
Red Steer 0-12-5	Clear Spring	....	....	....	....	**.65**	....	**12.35**	12.00	**5.36**	5.00	**14.27**	13.60
Sulphate of Ammonia	Baltimore	....	....	**25.00**	25.00	....	....	....	....	....	....	....	....
Vigoro	Hyattsville	**3.70**	....	**4.04**	4.00	**1.65**	....	**12.05**	12.00	**4.28**	4.00	**29.47**	28.80

Synthetic Nitrogen Products Corp., New York, N. Y.													
Nitrophoska I	Baltimore	**18.35**	....	**18.44**	18.24	**.50**	....	**31.50**	30.00	**16.24**	15.00	**112.03**	108.96
Tennessee Copper & Chemical Corp., Lockland, Ohio.													
Loma	Baltimore	**5.55**	....	**6.06**	6.00	**.90**	....	**10.20**	10.00	**4.32**	4.00	**36.00**	35.20
Thomas & Co., Gaithersburg, Md.													
Acid Phosphate	Frederick	....	....	....	....	**.35**	....	**19.25**	16.00	....	....	**15.45**	12.80
Acid Phosphate	Feageville	....	....	....	....	**.65**	....	**18.45**	16.00	....	....	**14.86**	12.80
Alkaline Bone	Union Bridge	....	....	....	....	**.70**	....	**13.90**	12.00	**4.60**	5.00	**14.91**	13.60
Alkaline Bone	Frederick	....	....	....	....	**1.15**	....	**13.25**	12.00	**5.36**	5.00	**15.06**	13.60
Excelsior	Frederick	**1.01**	....	**1.35**	2.00	**.50**	....	**12.80**	12.00	**2.60**	3.00	**17.80**	20.00
Harvest Queen	Poolesville	**.22**	....	**.68**	1.25	**1.65**	....	**13.05**	10.00	**4.30**	2.00	**16.85**	14.60
Harvest Queen	Gaithersburg	**.91**	.45	**1.37**	1.25	**2.35**	....	**9.75**	10.00	**3.00**	2.00	**16.03**	14.60
Manure Salts	Feageville	....	....	....	....	....	....	....	....	**20.00**	20.00	....	....
Wheat and Grass Grower	Laytonsville	....	....	**1.43**	2.00	**1.30**	....	**10.00**	8.00	**4.40**	5.00	**17.44**	18.40
Wheat and Grass Grower	Frederick	**1.54**	.60	**1.88**	2.00	**1.35**	....	**13.05**	8.00	**3.60**	5.00	**21.04**	18.40
Wm. B. Tilghman Company, Salisbury, Md.													
Superphosphate	Salisbury	....	....	....	....	**.75**	....	**17.05**	16.00	....	....	**13.75**	12.80
Bone Tankage Mixture	Salisbury	**1.96**	1.00	**2.18**	2.00	**.95**	....	**12.65**	12.00	**3.50**	4.00	**21.78**	20.80
Bone Tankage Mixture	Salisbury	**1.89**	1.00	**2.15**	2.00	**.65**	....	**13.75**	12.00	**4.24**	4.00	**23.09**	20.80
Early Truck Guano	Ridgely	**4.19**	3.29	**5.09**	5.00	**.85**	....	**9.05**	8.00	**4.76**	5.00	**31.54**	30.40
High Grade Mixture	Ingleside	....	....	**2.53**	2.00	**.90**	....	**8.90**	8.00	**10.00**	10.00	**25.38**	22.40
High Grade Mixture	Salisbury	**2.33**	1.00	**2.71**	2.00	**1.05**	....	**8.95**	8.00	**9.60**	10.00	**25.84**	22.40
Phosphate and Potash	Salisbury	....	....	....	....	**1.00**	....	**12.20**	12.00	**5.22**	5.00	**14.09**	13.60
Phosphate and Potash	Salisbury	....	....	....	....	**.80**	....	**12.10**	12.00	**4.84**	5.00	**13.67**	13.60
Special 1-9-4 Fertilizer	Salisbury	**1.70**	.50	**1.84**	1.00	**.45**	....	**10.45**	9.00	**5.30**	4.00	**20.03**	14.40
Special 2-16-8	Salisbury	**1.98**	1.00	**2.18**	2.00	**.45**	....	**16.15**	16.00	**8.32**	8.00	**28.37**	27.20
Special Grain Fertilizer	Salisbury	**1.41**	.50	**1.55**	1.00	**.50**	....	**10.60**	10.00	**5.34**	5.00	**19.03**	16.00
Standard	Hurlock	**2.24**	1.00	**2.44**	2.00	**.45**	....	**8.45**	8.00	**5.18**	5.00	**20.73**	18.40
Standard	Salisbury	**2.59**	1.00	**2.76**	2.00	**.50**	....	**8.80**	8.00	**5.60**	5.00	**22.64**	18.40
Standard	Ridgely	**2.24**	1.00	**2.53**	2.00	**.95**	....	**9.05**	8.00	**5.00**	5.00	**21.50**	18.40

* Total Phosphoric Acid.

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		SUPERPHOSPHATE				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Valliant Fertilizer Co., Laurel, Del.													
Superphosphate		....	....	....	....	**.65**	....	**17.95**	16.00	....	....	**$14.46**	$12.80
Diamond		**1.88**	1.00	**2.10**	2.00	**.50**	....	**8.50**	8.00	**6.24**	5.00	**20.27**	18.40
Fam-us		**1.01**	.50	**1.28**	1.00	**.20**	....	**10.30**	9.00	**4.40**	4.00	**16.91**	14.40
E. S. Valliant & Son, Centreville, Md.													
Ammoniated Potash Mixture	Centreville	**.92**	.50	**1.09**	1.00	**.80**	....	**11.10**	11.00	**5.56**	5.00	**17.81**	16.80
Ammoniated Potash Mixture	Centreville	**.80**	.50	**1.04**	1.00	**.65**	....	**10.95**	11.00	**5.72**	5.00	**17.60**	16.80
Animal Base Mixture	Centreville	**.78**	.50	**1.04**	1.00	**.35**	....	**11.05**	11.00	**5.86**	4.00	**17.74**	16.00
Animal Base Mixture	Centreville	**.79**	.50	**1.06**	1.00	**.40**	....	**11.30**	11.00	**4.90**	4.00	**17.26**	16.00
Chester	Centreville	....	....	**.60**	.50	**.40**	....	**10.70**	10.00	**4.80**	4.00	**14.86**	13.20
Chester	Centreville	....	....	**.68**	.50	**.35**	....	**10.25**	10.00	**5.00**	4.00	**14.97**	13.20
Fall Keystone	Centreville	**1.78**	1.00	**1.93**	2.00	**.40**	....	**9.70**	9.00	**6.88**	5.00	**21.04**	19.20
Gem	Centreville	....	....	....	....	**.25**	....	**10.25**	10.00	**6.20**	5.00	**13.20**	12.00
Grain Grower	Centreville	**.82**	.50	**1.01**	1.00	**.60**	....	**11.10**	10.00	**4.32**	4.00	**16.47**	15.20
Harvest	Centreville	....	....	....	....	**.20**	....	**12.50**	12.00	**5.76**	5.00	**14.64**	13.60
Harvest	Centreville	....	....	....	....	**.55**	....	**12.45**	12.00	**6.36**	5.00	**15.13**	13.60
Ideal	Centreville	....	....	....	....	**.35**	....	**12.00**	12.00	**6.70**	6.00	**15.01**	14.40
Kainit	Centreville	....	....	....	....	....	....	....	....	**16.15**	12.40	....	....
Keystone	Centreville	**1.71**	1.00	**1.88**	2.00	**.30**	....	**8.80**	8.00	**5.94**	5.00	**19.36**	18.40
Oriole	Centreville	....	....	**.53**	.50	**.85**	....	**9.45**	9.00	**5.20**	4.00	**13.97**	12.40
Oriole	Centreville	....	....	**.61**	.50	**.10**	....	**11.00**	9.00	**4.38**	4.00	**14.76**	12.40
Special Mixture	Centreville	**.87**	.50	**1.11**	1.00	**.50**	....	**11.30**	11.00	**4.80**	4.00	**17.40**	16.00
Standard	Centreville	**.57**	.50	**.77**	1.00	**.45**	....	**10.05**	9.00	**5.20**	4.00	**15.35**	14.40
2-12-4	Centreville	**1.74**	1.00	**1.98**	2.00	**1.05**	....	**12.15**	12.00	**4.40**	4.00	**21.32**	20.80

0-13-7	Centreville	....	....	....	....	**.75**	....	**13.55**	13.00	**7.40**	7.00	**16.87**	16.00
Winner	Centreville	**1.79**	1.00	**2.01**	2.00	**.30**	....	**8.20**	8.00	**11.52**	10.00	**23.87**	22.40
Winner	Centreville	**1.72**	1.00	**2.03**	2.00	**.60**	....	**8.80**	8.00	**10.36**	10.00	**23.54**	22.40
W. H. Valliant & Bro., Bellevue, Md.													
Fish Special	Bellevue	**1.26**	....	**2.03**	2.00	**.35**	....	**9.65**	8.00	**6.40**	6.00	**21.01**	19.20
1-8-4 Phosphate	Bellevue	**.29**	....	**1.01**	1.00	**.95**	....	**7.85**	8.00	**7.40**	4.00	**16.38**	13.60
Lime and Potash	Bellevue	....	....	....	....	....	....	....	....	**4.14**	5.00	....	....
0-12-5 Phosphate	Bellevue	....	....	....	....	**.55**	....	**13.05**	12.00	**5.34**	5.00	**14.79**	13.60
Virginia-Carolina Chemical Corp., Baltimore, Md.													
American Superphosphate H. G.	Baltimore	....	....	....	....	**.45**	....	**17.55**	16.00	....	....	**14.11**	12.80
American Champion Grain Grower	Baltimore	**.80**	.49	**1.19**	1.00	**2.45**	....	**9.85**	9.00	**4.00**	4.00	**16.21**	14.40
American Champion Grain Grower	Baltimore	**.72**	.49	**1.13**	1.00	**2.05**	....	**10.05**	9.00	**4.34**	4.00	**16.34**	14.40
American Excelsior Guano	Baltimore	**1.53**	.78	**2.08**	2.00	**1.95**	....	**9.25**	8.00	**5.18**	5.00	**20.15**	18.40
American High Grade Potash Mixture	Baltimore	....	....	....	....	**.80**	....	**13.40**	12.00	**5.38**	5.00	**15.14**	13.60
American Prize Guano	Baltimore	**1.67**	.96	**2.01**	2.00	**2.00**	....	**8.80**	8.00	**9.60**	10.00	**23.06**	22.40
V-C Fairway Fertilizer	Baltimore	**5.89**	5.29	**7.97**	8.00	**.50**	....	**6.30**	6.00	**5.40**	5.00	**41.32**	40.80
V-C Fish, Bone and Potash	Baltimore	**1.65**	.78	**2.20**	2.00	**2.10**	....	**9.70**	9.00	**3.24**	3.00	**19.47**	17.60
V-C Fish, Bone and Potash	Baltimore	**1.47**	.78	**2.12**	2.00	**2.30**	....	**10.20**	9.00	**3.34**	3.00	**19.66**	17.60
V-C Fish and Potash Compound	Baltimore	**1.52**	.78	**2.08**	2.00	**2.25**	....	**10.45**	9.00	**3.40**	3.00	**19.74**	17.60
V-C Star Brand Fertilizer	Baltimore	**.79**	.49	**1.18**	1.00	**2.15**	....	**10.05**	9.00	**4.04**	4.00	**16.31**	14.40
V-C Super 26 Fertilizer	Baltimore	**1.79**	.78	**2.18**	2.00	**1.55**	....	**16.00**	16.00	**8.24**	8.00	**28.34**	27.20
V-C Super 26 Fertilizer	Baltimore	**1.69**	.78	**2.13**	2.00	**1.55**	....	**16.55**	16.00	**8.40**	8.00	**28.71**	27.20
Westminster Fertilizer Co., Westminster, Md.													
Super Phosphate	Westminster	....	....	....	....	**.90**	....	**19.30**	16.00	....	....	**15.58**	12.80
Leader	Westminster	**.58**	.49	**.99**	1.00	**.90**	....	**9.50**	9.00	**4.20**	4.00	**15.06**	14.40
2-8-5	Westminster	**1.33**	1.00	**1.76**	2.00	**.85**	....	**9.25**	8.00	**5.92**	5.00	**19.31**	18.40
Super-A	Westminster	**.58**	.49	**.99**	1.00	**.75**	....	**11.25**	10.00	**2.34**	2.00	**14.94**	13.60
A. S. Woolley Co., Inc., Seaford, Del.													
Grain Fertilizer	....	**1.30**	....	**1.81**	2.00	**.50**	....	**10.20**	8.00	**5.00**	5.00	**19.48**	18.40
Special Wheat Fertilizer	....	**.95**	....	**1.19**	1.00	**.30**	....	**10.80**	9.00	**4.12**	4.00	**16.75**	14.40

Name and Address of Manufacturer and Name of Fertilizer	Place of Sampling	H_2O SOL. AMMONIA		NITROGEN Calculated as AMMONIA		SUPERPHOSPHATE				POTASH K_2O.		Comparative Value per Ton Found	Comparative Value Per Ton Guaranteed
						Insoluble		Available					
		FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed	FOUND	Guaranteed		
Worcester County Farm Bureau, Snow Hill, Md.													
Service Mixture	Snow Hill	**1.86**	1.00	**2.30**	2.00	**.85**	....	**12.00**	12.00	**6.10**	6.00	$23.81	$22.40
Worcester Fertilizer Company, Snow Hill, Md.													
Superphosphate	Snow Hill	....	....	....	....	**.70**	....	**16.80**	16.00	....	....	**13.55**	12.80
Correct Plant Food Mixture 1-9-4	Snow Hill	**.89**	.33	**1.06**	1.00	**.50**	....	**8.65**	9.00	**4.34**	4.00	**14.71**	14.40
Correct Plant Food Mixture 2-8-5	Snow Hill	**1.79**	....	**2.13**	2.00	**.45**	....	**8.05**	8.00	**5.20**	5.00	**19.19**	18.40
Correct Plant Food Mixture 2-8-10	Snow Hill	**1.77**	.66	**2.08**	2.00	**.45**	....	**7.85**	8.00	**10.00**	10.00	**22.67**	22.40
Correct Plant Food Mixture 2-12-4	Snow Hill	**1.73**	.66	**2.05**	2.00	**.75**	....	**12.00**	12.00	**4.76**	4.00	**21.72**	20.80
Correct Plant Food Mixture 0-12-5	Snow Hill	....	....	....	....	**.55**	....	**12.45**	12.00	**5.24**	5.00	**14.23**	13.60
R. B. Wyand, Chewsville, Md.													
Superphosphate	Chewsville	....	....	....	....	**.35**	....	**19.45**	16.00	....	....	**15.61**	12.80
Golden Harvest	Chewsville	**1.57**	....	**2.03**	2.00	**.70**	....	**10.40**	10.00	**5.38**	5.00	**20.85**	20.00
Grain Mixture	Chewsville	**1.20**	....	**1.66**	1.00	**.95**	....	**9.45**	9.00	**5.16**	4.00	**18.47**	14.40
Phosphate and Potash	Chewsville	....	....	....	....	**1.15**	....	**12.65**	12.00	**5.20**	5.00	**14.45**	13.60